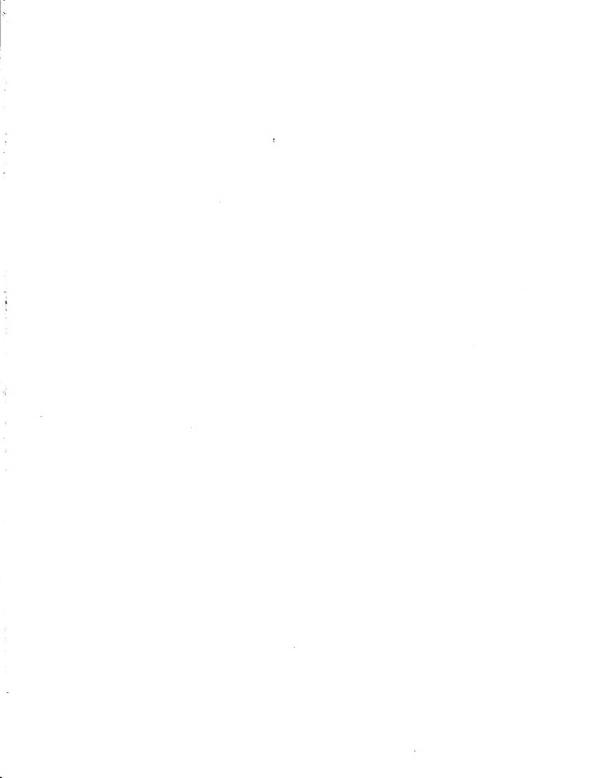
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U.S. CENSUS OF AGRICULTURE: 1959

Final Report—Vol. III

ORGANIZATIONS

FARMS AND ACREAGE IRRIGATED

INVESTMENT • WATER USED • COST



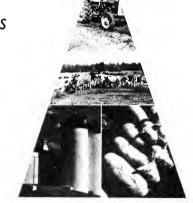
The United States

IRRIGATION OF AGRICULTURAL LANDS

Prepared under the supervision of RAY HURLEY, Chief Agriculture Division



U.S. DEPARTMENT OF COMMERCE
Luther H. Hodges, Secretary
BUREAU OF THE CENSUS
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PREFACE

Volume 111: Irrigation of Agricultural Lands presents all available data for the 1959 Census of Irrigation.

The 1959 Census of Irrigation covered irrigation only in the 17 conterminous Western States, Louisiana, and Hawaii. This report presents some summary data on irrigated land for the same area, obtained in the 1959 Census of Agriculture.

The 1959 Census of Irrigation was taken in conformity with the Act of Congress of August 31, 1954 (amended August 1957), which was codified Title 13, United States Code.

Most of the data presented in the report were collected by mail. Reports for irrigation enterprises with operations limited to a drainage basin area for which reports could not be obtained by mail were secured by census enumerators.

The planning of the census was performed by Hugh II. Hansen and Henry L. DeGraff, Irrigation Economists, under the supervision of Ray Hurley, Chief, Agriculture Division. Census enumerators worked under the supervision of Robert B. Voight, then Chief of the Field Division. Reports of irrigation enterprises with operations in more than one drainage basin were obtained by John Zimmer, Raymond Anderson, and Wayne Ehlers of the Agricultural Research Service of the U.S. Department of Agriculture, working as special agents of the Bureau of the Census. The compilation of the statistics was under the supervision of Henry L. DeGraff. George Coffman reviewed most of the tabulations and the statistical tables. Maps accompanying this report were prepared under the supervision of William T. Fay, Chief of the Geography Division, Bureau of the Census. This report was written by Henry L. DeGraff, Irrigation Economist, Warder B. Jenkins, Assistant Chief, Agriculture Division, and Ray Hurley, Chief of the Agriculture Division.

October 1962.

UNITED STATES CENSUS OF AGRICULTURE: 1959

FINAL REPORTS

Volume I—Counties—A separate part for each State, Puerto Rico, Guam, Virgin Islands, and American Samoa. Statistics on number of farms; farm characteristics; acreage in farms; cropland and other uses of land; land-use practices; irrigation; farm facilities and equipment; farm labor; farm expenditures; use of commercial fertilizer; number and kind of livestock; acres and production of crops; value of farm products; characteristics of commercial farms, farms classified by tenure, size, type, and economic class; and comparative data from the 1954 Census.

Part	State or States	Part	State or States	Part	State or States	Part	State or States
1 2 3 4 5 6 7 8 9 10 11 12 13 14	New England States: Maine. New Hampshire. Vermont. Massachusetts. Rhode Island. Connecticut. Middle Atlantic States: New York. New Jersey. Pennsylvania. East North Central: Ohio. Indiana. Illinois. Michigan. Wisconsin.	15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	West North Central: Minnesota. Iowa. Missouri. North Dakota. South Dakota. Nebraska. Kansas. South Atlantie: Delaware. Maryland. Virginia. West Virginia. North Carolina. South Carolina. Georgia. Florida.	30 31 32 33 34 34 35 36 37 38 39 40 41 42 43	East South Central: Kentucky. Tennessee. Alabama. Mississippi. West South Central: Arkansas. Louisiana. Oklahoma. Texas. Mountain: Montana. Idaho. Wyoming. Colorado. New Mexico. Arizona.	44 45 46 47 48 49 50 51 52 53 54	Mountain—Con. Utah. Nevada. Pacific: Washington. Oregon. California. Alaska. Hawaii. Other Areas: American Samoa. Guam. Puerto Rico. Virgin Islands.

Volume II—General Report—In 1 volume and also as 13 separates (for the Introduction and for each chapter). Statistics by subjects for 1959 and prior censuses. Statistics are presented for the United States, geographic regions, and divisions, and for the States.

Chapter	Title	Chapter	Title
IIIIIIV VVI	Introduction. Farms and Land in Farms. Age, Residence, Years on Farm, Work Off Farm. Farm Facilites, Farm Equipment. Farm Labor, Use of Fertilizer, Farm Expenditures, and Cash Rent. Size of Farm. Livestock and Livestock Products.	VIII VIII IX X XI XII	Field Crops and Vegetables. Fruits and Nuts, Horticultural Specialties, Forest Products. Value of Farm Products. Color, Race, and Tenure of Farm Operator. Economic Class of Farm. Type of Farm.

Volume III—Irrigation of Agricultural Lands—Data from the Irrigation Censuses of 1959 and 1950, by drainage basins, for the conterminous United States and for each of the 17 western States and Louisiana. Separate maps are available. Report also includes data from the 1959 Census of Agriculture for land irrigated and acres and production of crops on irrigated land in the 18 conterminous States and Hawaii.

Volume IV—Drainage of Agricultural Lands—Statistics for States and counties and for the conterminous United States, presenting 1960 data on number, area, physical works, and costs for drainage projects of 500 or more acres by size, type, and year organized. Maps are included.

Volume V-Special Reports

Part 1.—Special Census of Horticultural Specialties—Statistics for States, except Alaska and Hawaii, and for the conterminous United States, presenting 1959 data on number and kinds of operations, gross receipts and/or sales, sales of specified products, inventories, employment, and structures and equipment.

Part 2.—Irrigation in Humid Areas—Statistics for 30 eastern States showing 1960 data on acres irrigated, number of constructed ponds and reservoirs, source and method of applying water, type of pumping power, acreage of individual crops irrigated, and frequency of irrigation by States and counties.

Part 3.—Ranking Agricultural Counties—Statistics for selected items of inventory and agricultural production for the leading counties in the United States.

Part 4.—Farm Taxes and Farm Mortgage—A cooperative report by the Economic Research Science, U.S. Department of

Agriculture and the Bureau of the Census, U.S. Department of Commerce, presenting 1961 data by States on taxes on farms, number of mortgaged farms operated by full owners and part owners, amount of mortgage debt held by principal lending agencies, and amount of interest paid.

Part 5.—1960 Sample Survey of Agriculture—Statistics by economic class and type of farm, showing 1960 data on farm-operator-family income from farm and off-farm sources; inventory and use of selected types of farm equipment, tractors by year made and fuel used; number, size, and materials used for new buildings constructed 1958 to 1960; number of farmers having contracts with dealers, processors, or others for the production and marketing of 15 farm products; and real estate and non-real-estate debts of farm operators and farm landlords by lending agencies

Part 6.—A Graphic Summary of Agriculture, 1959—A cooperative report by the Economic Research Service, U.S. Department of Agriculture and the Bureau of the Census, U.S. Department of Commerce, presenting graphically for 1959 and prior census years some of the significant uses of agricultural land; the extent and nature of the various kinds of tenure under which farms are held and operated; and changes and developments in the use of agricultural resources and production of agricultural products.

Special Publication—Principal Data-Collection Forms and Procedures: United States Census of Agriculture, 1959, and Related Surveys—Faosimiles of the enumeration forms used, showing variations for the 50 States, Puerto Rico, American Samoa, Guam, and the Virgin Islands, together with brief descriptions of the census field procedures for the census and the related surveys.

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California	94	102	105	106	118	North Dakota	270	271	273	274	276
Colorado	122	130	133	134	152	Oregon	278	283	286	287	297
Idaho	158	163	166	167	179	South Dakota	300	301	303	304	306
Kansas-Oklahoma	184	185	187	188	190						
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INTRODUCTION

(VII)

INTRODUCTION

1959 CENSUS OF IRRIGATION

Data regarding irrigation were collected from two sources for the 1959 Censuses of Agriculture and Irrigation.

In the 1959 Census of Agriculture, information about irrigation was collected directly from farm operators regarding acres irrigated, and for 19 States regarding crops irrigated and source of water. The inquiries for the census of agriculture for the 17 conterminous Western States, Louisiana, and Hawaii were as follows:

(If "None," m 214. How many acres in this place we by sprinklera this year?	ark X and skip to re irrigated		cres
216. What part of the land from white were harvested this year was trigated. (If "All," (If "Part" one below name.	ed land from which searing fruit and re harvested.) mark X and skip the crops mark X and skip to a graduate the crops	hay was cut and all irrigated ut crops and irrigated land to question [217]) All Part question [217])	cres
was irrigated, list "Orchard,"	and if all vegetable	for sale, list "Vegetables")	
was irrigated, list "Orchard," Name of crop irrigated?	Acres irrigated?	Name of crop strigated?	Acres irrigated?
was irrigated, list "Orchard,"	Acres irrigated?	s for sale, list "Vegetables")	
was irrigated, list "Orchard," Name of crop irrigated?	Acres irrigated?	Name of crop strigated?	
var irrigated, list "Orchard," Name of crop irrigated? (1) (2) [217] What percent of the irrigation water used on this	Acres irrigated? From a well (pun directly by this fi From a stream, i, Green by this fi From a mutual or company, irrigation? (()	Name of crop rrigated?	irrigated?

The inquiries for the $30\ \mathrm{remaining}\ \mathrm{States}\ (\mathrm{except}\ \mathrm{Alaska})\ \mathrm{were}$ as follows:

213. Of the total land in this place (repo	rted in question 203),		
how many acres were treigated this year?		None [Acres

A special survey was made in 1960 for farms for which land irrigated was reported in the 1959 Census of Agriculture for these 30 States. This survey obtained information regarding source of water, method of irrigation, type of power used for pumping, crops irrigated, constructed reservoirs, and year irrigation was started. The results of this survey appear in Volume V, Part 2: "Irrigation in Humid Areas" of the reports for the 1959 Census of Agriculture.

Data regarding the irrigation operations were obtained from irrigation organizations. With few exceptions, the 1959 Census of Irrigation included only organizations which supplied water to two or more farms. This enumeration included the 17 conterminous Western States, Louisiana, and Hawaii. Three questionnaires were used in 1959 to enumerate irrigation organizations. These three forms requested the same basic information but differed according to the type of organization each was designed to enumerate. Facsimile copies of these questionnaires are shown in the appendix of this report. A more complete discussion of each questionnaire including its purpose, is given on page XVII.

History of census collection of irrigation data.- Inquiries relating to irrigation of farm and ranch lands in the United States have been included in each decennial census of agriculture beginning with 1890 and for each mid-decennial census of agriculture beginning with 1935. The 1890 general questionnaire for the census of agriculture, used in all States and territories, contained one inquiry to obtain the total acreage irrigated on each farm and another to obtain the number of artesian wells flowing. Other facts were obtained by direct correspondence and special schedules addressed to each irrigator. The 1890 report (Volume V of the Eleventh Census of the United States) presented a limited amount of irrigation data for 16 States or territories in the western part of the United States, listed, for discussion purposes, under two groupings, viz. arid region and subhumid region. The arid region embraced a part or the whole of 8 States-California, Colorado, Idaho, Montana, Nevada, Oregon, Washington, and Wyoming-and the whole of 3 territories-Arizona, New Mexico, and Utah. The subhumid region embraced parts of 5 States, viz. North Dakota, South Dakota, Nebraska, Kansas, and Texas. The statistics presented in the 1890 report showed 3.631.381 acres had been irrigated in 1889 on 54.136 farms. Irrigation of Indian reservation lands was not included.

In the 1900 Census of Agriculture, two inquiries relating to irrigation of farm and ranch lands were carried, for all States and territories. These two inquiries classified the number of acres irrigated in 1899 according to whether the irrigation water came from natural streams or from pumped or artesian wells. Statistics were presented separately, first, for three groupings of States and territories, viz, arid States which corresponded to the similarly designated grouping in 1890; semiarid States which, with the addition of Oklahoma, comprised the 1890 grouping under subhumid States; and the humid States. (See Volume VI, Part 11, of the Twelfth Census of the United States.) The latter grouping, for the 1900 report, was made up of four New England States, the three Middle Atlantic States, and Florida. Irrigation carried out on Indian reservations was excluded. The 1900 report acknowledged that watering of market gardens, even those of considerable size, often was not reported as irrigation.

Recognition was taken of the fact that many acres of irrigated rice, except for Texas, had not been included in the totals for the three main groupings of States. (Rice irrigation in Texas really began about 1897, the industry receiving great impetus from the success of the planters in southwestern Louisiana.) Therefore, some separate data were presented in the 1900 report for irrigated rice farms in Alabama, Georgia, Louisiana, Mississippi, North Carolina, and South Carolina as well as for Texas. A few figures were presented for irrigated sugarcane, rice, and other crops produced in the Hawaiian Islands. The report for that year contained these observations in respect to rice. "The collection of statistics of irrigation in the Southern States, especially of those relating to the irrigation of rice, has been attended with many difficulties. In the coast counties rice is reported as grown with and without irrigation, and in many instances the yield per acre is nearly the same. To determine the extent of irrigation, correspondence with the planters was necessary, but . . . results are not satisfactory. The data concerning the large plantations were quite fully reported, and upon these the census figures are based, no account having been taken of many small plantations growing rice from which no special reports were received."

A joint resolution of Congress, approved June 30, 1902, provided for the collection of data on irrigation for the crop year 1902. Questionnaires were mailed to irrigators reported in the 1900 Census of Agriculture and to officials of important canal companies. The statistics received by mail were supplemented by field work in a few States and by a limited amount of information from other sources. The data obtained were tabulated by drainage basins in order, so it was reported, that a better knowledge may be had of the extent of use of these waters. (See Census Bulletin 16, "Irrigation in the United States: 1902," published in 1904.) The 1902 Special Census included the same 11 arid States and territories, 6 semiarid States, 8 humid States, and 6 rice-growing States for which data were presented in the 1900 report. Irrigators in the Hawaiian Islands were not canvassed for the 1902 Special Survey of Irrigation.

Beginning with 1910, a special census of irrigation has been taken, decennially, in the United States. The law relating to the first of these special irrigation censuses provided that the inquiry should cover "the arid region of the United States." The "arid region" was held to include all sections of the United States where irrigation is commonly practiced in the growing of farm crops. The 1910 Special Census of Irrigation included the western part of the tier of States formed by the Dakotas, Nebraska, Kansas, Oklahoma, and Texas, and all States and territories between these States and the Pacific Ocean. Hawaii and the other insular possessions were not covered. Under a broad interpretation, the 1910 Special Census of Irrigation was extended to the rice-growing districts of Louisiana, Texas, and Arkansas. A special questionnaire pertaining to irrigation enterprises was prepared and the data were collected by special agents. This irrigation questionnaire was designed to secure more detailed information than was called for by the general questionnaire for the census of agriculture carried by the enumerators who were charged with collecting data in respect to individual farms and the population. The latter enumerators, in areas using water for irrigation, made use of a supplemental irrigation schedule. (See Volumes V, VI, and VII of the reports of the Thirteenth Census for irrigation data for 1910, from both the special irrigation census and from the general census.)

For 1920, the basic plan for gathering irrigation statistics provided that the census of agriculture enumerators, in all States, would obtain a few facts in regard to land to which water had been supplied, for agricultural purposes, by artificial means or by seepage from canals, reservoirs, or other irrigated lands. A cross (X) was required to be placed before the name of each crop irrigated. In the 17 most westerly States-Arizona, California, Colorado, Idaho, Kansas, Montana, Nebraska, Nevada, New Mexico, North Dakota, Oklahoma, Oregon, South Dakota, Texas, Utah, Washington, and Wyoming-and also in Arkansas and Louisiana, this same general class of enumerators were instructed to obtain an irrigation schedule for each enterprise supplying water to fewer than 5 farms. Special agents were employed to obtain, in the 19 listed States, irrigation schedules for the larger enterprises and, after the regular enumeration had been completed, for any small ones missed by the general census enumerators. After 1910, rice growing became quite important in California. Since the area devoted to that crop, in that State, is not geographically separated from other lands used for growing irrigated harvested crops or irrigated pasture, all data related to rice growing in the 19 listed States, were consolidated for the first time, in the Fourteenth Census reports with the data for other irrigated lands. (See Volume VII of the reports of the Fourteenth Census.)

The first mid-decennial census of agriculture was taken in 1925. No inquiries were made for the 1925 census to identify irrigated land or irrigated crops. In each subsequent mid-decennial census, some data in regard to irrigation have been obtained, though not necessarily published, for each State, in the general census of agriculture.

In the 1930 census, irrigation statistics were gathered in a manner closely similar to that followed ten years earlier. The census of agriculture enumerator, regardless of the State in which he was working, was required to obtain a few facts for irrigated cropland (not total irrigated land) and to identify any harvested crop wholly or partially irrigated. For each harvested crop, partially grown on dryland, provision was made to list separately the dryland acres and production. The census of agriculture enumerator, in the same 19 States covered in the 1910 and 1920 Censuses of Irrigation, was required to fill a relatively simple questionnaire for individual, partnership, and cooperative enterprises serving one to four farms. For enterprises of other types, and partnership and cooperative enterprises serving more than four farms, a more elaborate questionnaire and special enumeration procedure were used. United States Government enterprises were reported direct to the Bureau of the Census by the Commissioner of the Bureau of Reclamation and the Commissioner of the Bureau of Indian Affairs, the separate reports being prepared by local division or project engineers under the supervision of these officials. Reports for others of the group of larger enterprises were obtained by mail. The mail canvass preceded the work of the enumerators, which permitted census supervisors to detail conveniently located enumerators who had performed good work in reporting the smaller enterprises, to the enumeration of enterprises which had not already been covered by reports obtained by mail. Finally, such enterprises for which reports had been obtained neither by mail nor through the regular enumerators were canvassed by special enumerators. (See "Irrigation of Agricultural Lands," one of the 1930 Census of Agriculture reports.)

In the 1935 Census of Agriculture, only one inquiry in regard to irrigation appeared on the questionnaire for the general census of agriculture. This one question was designed to obtain the total acreage from which irrigated crops were harvested in 1934. (See Volume III of the 1935 Census of Agriculture reports for data for irrigation for all States.) The publication of irrigation data for each State, as presented in the summary report for the 1935 Census of Agriculture has been continued for each succeeding census. Sometimes all of the available data have been presented in the summary report for the census of agriculture while for other years, when a special census of irrigation was conducted, some of the data appear in the summary report for the census of agriculture and the remaining in the special report dealing with irrigation.

In the 1940 Census of Agriculture, the total acreage of land from which irrigated crops were harvested and the total acreage of irrigated land used only for pasture or grazing were secured in all States. In the 17 most westerly States and in Arkansas and Louisiana, the irrigated area was also obtained for many of the individual crops. No provision was made on the questionnaire for showing separately the total production of a crop harvested from irrigated land. However, the tabulation plan provided for a separation of the acreage and production of the farms reporting a crop wholly irrigated and of the farms reporting a crop wholly nonirrigated. A limited amount of data was also tabulated for irrigated farms in Florida. (See Volume I, Volume III, and "Irrigation of Agricultural Lands" of the 1940 Census of Agriculture reports for irrigation data obtained in the 1940 general census of agriculture; also see Volume III for some historical data beginning with those for 1890.) The special census of irrigation for 1940 was conducted in Florida in addition to the 19 States referred to above. In the 1935 Census of Agriculture, 2,751 farms in Florida had been recorded as having 65,832 acres of irrigated farm and ranch land in 1934. These were larger totals than shown for any State other than those included in the designated 18 irrigation States covered in several special censuses of irrigation. (In the 1940 report "Irrigation of Agricultural Lands," statistics were presented for 19 States as one group while those for Florida were summarized with any available data presented for the group of humid States.)

The questionnaire for the 1945 Census of Agriculture contained this inquiry: "Total land in this farm irrigated in 1944." Provision was made, in the reporting form for the 19 irrigation States. for the enumerator to identify, with a check mark, crops harvested from irrigated land. However data collected in the 1945 Census of Agriculture on irrigation were not published because of their incompleteness. (See page XXVII of Volume II of the 1945 Census of Agriculture reports.) The incompleteness seemed to be more general in areas where irrigation was not widely practiced. Later, after a review of the tabulated totals for each county and some editing to correct the most likely cases of incomplete enumeration, a six-page pamphlet was issued, presenting a comparison of 1945 and 1940 census totals. This special report gave county data for farms reporting irrigated land and acres of irrigated land. However, data for counties with less than 100 acres irrigated in 1944 were consolidated in each State under the heading "All other counties." In the 1950 summary report of the census of agriculture (see pages 11, 62, and 63 of Volume II of the 1950 Census of Agriculture reports), the State totals for 1945 were published and are compared with data for prior censuses. In the 1950 Census of Agriculture, data were obtained on total land irrigated in 1949 and on acres irrigated by sprinklers. Additional data in respect to irrigation were obtained for 20 States, the 17 Western States, Arkansas, Louisiana, and Florida. The additional information obtained included a classification of the total irrigated land into four categories according to use, viz, irrigated cropland harvested, irrigated wild grass pasture, irrigated tame grass pasture, and irrigated cropland not harvested and not pastured; and information as to the specific crops irrigated and the supplier of the irrigation water. (See Volumes I, II, and III of the 1950 Census of Agriculture reports for these data.) In the 1950 Census of Irrigation, two questionnaires were used. One was used for the enumeration of irrigation enterprises operated by farms individually and the other for irrigation companies, districts, and other enterprises not operated by individual farms. The enterprises operated by individual farms were enumerated at the same time that the other census information for farms was obtained, by census of agriculture enumerators who receive special training for the enumeration of the irrigation enterprises. Enumeration of the irrigation enterprises that supplied 10 or more farms was accomplished in advance of the enumeration of the census of agriculture through the employment of specially qualified irrigation techniciansmostly professional employees of the Soil Conservation Service of the United States Department of Agriculture. Lists of enterprises serving 10 or more farms had been compiled, in part, from the reports collected in the 1940 Census of Irrigation. Another list, made currently while the census of agriculture enumeration was being conducted, was the principal source for the names of enterprises that supplied water for two to nine farms. These latter enterprises were enumerated by special enumerators trained and supervised by the irrigation technicians. (See Volume III: "Irrigation of Agricultural Lands" of the 1950 Census of Agriculture reports for statistics and their comparability with those from prior censuses.)

For the 1954 Census of Agriculture, several inquiries were used to obtain irrigation data in the 17 conterminous Western States and in Arkansas, Florida, Louisiana, and southeastern Missouri. For all of these areas, the inquiries related to the 1954 acreage

of irrigated land from which crops were harvested and the names of the crops for which the entire acreage harvested was irrigated in 1954. The area of irrigated pasture was also obtained except in Arkansas, Louisiana, and southeastern Missouri. In the remaining 27 States and Missouri except for southeastern counties in Missouri, the questionnaire called for only the total acres irrigated in 1954. For the 17 conterminous Western States and for Arkansas, Florida, and Louisiana, the published data included the total land in farms reporting irrigation, the land in farms classified by use, and, except for Arkansas and Louisiana, the irrigated portion of land in farms classified as to whether an irrigated crop had been harvested or the land had been used for pasture only. For these 20 States, data for irrigated and nonirrigated crops were published. For the other 28 States, the published data for irrigation were limited to the farms reporting and the total acres of land irrigated. (See Volumes I and II of the 1954 Census of Agriculture reports for all published data gathered on the 1954 questionnaire.) Because of increasing interest in the subject of irrigation in the humid areas, a special survey in cooperation with the United States Department of Agriculture was made in 1955 in the 28 Eastern States. (See Part 6 of Volume III, Special Reports, 1954 Census of Agriculture, for the kind of information gathered.)

Legal basis for the 1959 Censuses of Agriculture and Irrigation.—The 1959 Censuses of Agriculture and Irrigation were authorized by an Act of Congress, as were all similar prior censuses. "Title 13, United States Code—Census," codified in August 1954, and amended in August 1957 and September 1960, is now the legal basis for censuses of agriculture and other censuses, and surveys conducted by the Bureau of the Census. Section 142 paragraph (a) made provision for a census of agriculture and paragraph

- (b) for a census of irrigation. These sections read as follows: "142. Agriculture, Irrigation, and Drainage.
- (a) The Secretary shall, beginning in the month of October 1959, and in the same month of every fifth year thereafter. take a census of agriculture, provided that the censuses directed to be taken in October 1959 and each tenth year thereafter, may, when and where deemed advisable by the Secretary, be taken instead in conjunction with the censuses provided in Section 141 of this title. (Section 141 relates to the decennial censuses of population, unemployment, and housing to be taken as of the first day of April of each decennial year.)
- (b) The Secretary shall, in conjunction with the census of agriculture directed to be taken in October 1959 and each tenth year thereafter, take a census of irrigation and drainage."

PRESENTATION OF STATISTICS

The principal purpose of this report is to present all of the available data obtained in the 1959 Census of Irrigation. However, many of the data obtained in the 1959 Census of Agriculture are included so as to furnish more complete data not only for the Western States but also to bring together in one volume most of the data for all States and for the United States. This report also presents data obtained in previous censuses, both those for the census of irrigation and for the census of agriculture. Generally, the data from only one of these censuses are presented in a table. However, in a few cases, data from both censuses are in the same table.

Census of agriculture data.—Data from the census of agriculture are provided to indicate the extent of irrigation and to provide measures of the use of irrigation water for the production of various farm products. Summary table 1 shows, for each of the 50 States, exclusive of Alaska, the number of irrigated farms and the total area irrigated for the censuses of 1959, 1954, and 1950. Summary table 2 shows, for each of the 17 conterminous Western States and Louisiana, a classification of the land in farms according to use, as obtained in both the 1959 and 1954 censuses. Additional data are given for those farms, in each State, which reported all harvested crops as baving been grown under irriga-

tion. Figures are given in summary table 2 for the two groups of irrigated farms (1) those which used any irrigation water and (2) a smaller but significant total for farms on which all crops were harvested from irrigated land.

A full analysis of census-collected irrigation data must take into account the kinds of individual crops to which water was applied; the proportion of the total acreage of each crop which was irrigated; the proportion of the total production which was grown under irrigation; and the average yields obtained with and without irrigation. Such data are given in summary tables 4 and 5. The first of these, summary table 4, provides a summarization by the kind of crops harvested in 1959 for 18 irrigation States, with available comparable totals for crops harvested in 1954. Figures are given, for many of the principal crops harvested, showing the number of farms which irrigated the entire acreage of a crop, with its acres, production, and value of production. These figures represent totals for farms on which all the crop harvested was irrigated.

The data for irrigated crops presented in summary table 4 do not represent the total acreage of the various crops irrigated. The data relate only to the acreage and production of crops on those farms on which the entire acreage of the crop harvested was irrigated. For example, if the total acreage of corn harvested on a farm were 40 and all 40 acres were irrigated, then the entire 40 acres of corn was included in the total for irrigated. However, if only 10 out of the 40 acres of corn harvested were irrigated, then the totals given in summary tables 4 and 5 do not include the 10 acres of corn irrigated. In such cases, the entire 40 acres of corn was included in the total for nonirrigated. However, data are given in summary table 3 showing the total acreage of each crop irrigated on farms where only part of the acreage in a crop was irrigated.

Census of agriculture data, as to total acres irrigated and acres irrigated from ground and surface sources, are included in summary tables 11 and 12 and in summary table 9.

Data for the census of irrigation are presented by States and by drainage basins. In some tables, data are presented by drainage basins within States. In the presentation of data when only a few organizations were serving within a State, State totals only are given. If only a few irrigation organizations operated in a given drainage basin, totals for the area are not shown separately but are combined with those for another basin. Somewhat similar procedures are followed in the presentation of data by type of organization or size of organization measured by total acre-feet of water conveyed.

The tables for individual States present data, on an intrastate basis, for each separately delineated drainage basin within a State. These basins may be minor basins, or submajor basins depending on the extent to which drainage basins within a State have been delineated for the purpose of presenting data. Totals are given for each grouping of basins into the next larger drainage basin unit and for the State. The tables containing totals for the

18-State area present data for larger drainage basin units on an interstate basis. Submajor drainage basins are the smallest unit for which data are shown. In both intrastate and interstate tables, if there were less than 3 organizations in one or more of the basins, combinations of the data were made so that the two basins together made a fairly homogeneous unit. In the intrastate tables for Colorado, data are given separately for the north and south parts of submajor basin IV-D.

Other published data.—Volume I of the reports for the 1959 Census of Agriculture contains for each State and for each county, detailed data on irrigation as follows:

County Table 1a.—Number, acreage, land in farms classified by use, acreage irrigated by sprinklers, irrigated farms classified by acres irrigated, and land irrigated by source of water.

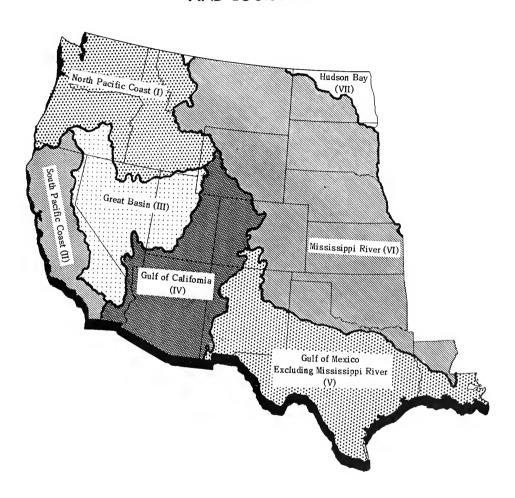
County Table 11a.—Farms reporting, acreage, and quantity of crops harvested from irrigated land. Figures are given for acres and quantity harvested for farms for which the entire harvested acreage of the crop was irrigated. For farms on which only part of the harvested acreage of the crop was irrigated, figures are given for farms reporting and acres, but not for quantity harvested.

Census of irrigation data.—Census of irrigation data are presented for the States covered by the 1959 Census of Irrigation, i.e., for the 17 conterminous Western States, and Louisiana. Data are not given separately for Oklahoma, as only two irrigation organizations were recorded in that State. To avoid disclosure of individual operations, Oklahoma figures have been combined with those for Kansas.

Drainage basin data provide the basis for a comprehensive analysis of irrigation organizations and their characteristics and development as well as measures of the relative importance of the principal streams as sources of water supply. Therefore, the statistics were assembled by drainage basins, and such geographic areas are extensively utilized herein for data presentation. Since drainage basin boundaries do not usually coincide with State lines, figures may be presented either on an intrastate or an interstate basis. Some tables contain data compiled on both bases. Since the irrigated area in a drainage basin may have received water from another drainage basin, data are shown in three of the tables regarding the interbasin transfers of water.

For convenience of reference, the drainage basins by which the data are presented have been identified in the tables and on the maps by a uniform system of symbols. Major drainage basins are designated by Roman numerals, submajor basins (subdivisions of the major drainage basins) by capital letters, parts or tributaries of the submajor basins by Arabic numerals, and further subdivisions by small letters. Thus, the number II-D 5c represents the drainage basin of the Yuba River (subminor basin c) which is part of the drainage area of the Feather River (minor basin 5) which is a tributary of the Sacramento River (submajor basin D) which is part of the South Pacific Coast drainage basin (major basin II). Parts of basins designated as the basin "direct" include tributaries not shown separately.

LOCATION OF MAJOR DRAINAGE BASINS IN THE 17 WESTERN STATES AND LOUISIANA



LOCATION OF SUBMAJOR DRAINAGE BASINS FOR WHICH INTRASTATE TABLES ARE PRESENTED



LOCATION OF SUBMAJOR DRAINAGE BASINS FOR WHICH INTERSTATE TABLES ARE PRESENTED



Maps showing irrigated areas by drainage basins.—There is a series of maps available for each of the 17 Western States and Louisiana. These maps are approximately 3 feet by 4 feet in size and were prepared on a scale of about 16 miles on the ground to 1 inch on the map. These show the location of irrigated land by counties and by drainage basins and the acres irrigated by source of water, either ground or surface. One overall map, showing similar data for all of the 18 States, is also available. The acreage shown as irrigated within a drainage basiu may not have received all of its water from sources within that basin as water from one basin may have been diverted and used in another basin.

The data used in the preparation of the maps for 1959 were obtained from both the census of irrigation and the census of agriculture. All figures for acreage are from the census of agriculture. The allocation of the acreage irrigated from organization sources between surface- and ground-water sources was made on the basis of the percentage of the water received in the

drainage basin, by all organizations, which came from ground and surface sources.

The number of dots for the State maps were calculated for each minor civil division or other county subdivision. The dots were plotted within the subdivision after an examination of United States Geological Survey topographic maps, maps of the Bureau of Reclamation projects, enumerator maps, and any other available information indicating the location of the irrigated land. After plotting, the dots were counted by drainage basins to determine the irrigated acreage from each water source for each drainage basin.

The acreage irrigated for counties having less than 500 acres irrigated is not shown on the maps. However, the table printed on the map does provide totals for the irrigated acreage in each drainage basin even though the data are not shown on the map for all counties.

In order that the figures presented for drainage basins may be more easily understood, three maps are given to show the general plan of both data and map presentation. One map shows the location of the major drainage basins in the 17 conterminous Western States and Louisiana. The second map shows the submajor drainage basins for which intrastate tables are presented and the third map shows the submajor drainage basins for which interstate tables are presented.

Identification of drainage basins.—The major and submajor basins and map symbols are as follows:

Basin	
	p symbol
Excluding Columbia River	I-A
Columbia River:	
Below Snake River	I-B
Above Snake River excluding Yakima River	I–C
Yakima River	
Snake River:	
Below Weiser, Idaho	I-E
Weiser to King Hill, Idaho	1-F
King Hill to American Falls, Idaho	I-G
Above American Falls	
SOUTH PACIFIC COAST:	
Klamath River	II-A
Klamath River to Santa Maria River excluding C	en-
tral Valley	II-B
Central Valley:	
Sacramento-San Joaquin Delta area	II-C
Sacramento River	
San Joaquin River	
San Joaquin Valley above San Joaquin River	II-F
Santa Maria River and South	
GREAT BASIN:	
Northwest Great Basin	1II-A
Humboldt River	III-B
South Central Great Basin	III-C
Bonneville Basin excluding Bear River	III-D
Bear River	III-E
GULF OF CALIFORNIA:	
Excluding Colorado River	IV-A
Colorado River:	
Colorado River below Lees Ferry, Arizona :	
Excluding Gila River	IV-B
Gila River	IV-C
Colorado River above Lees Ferry:	
Excluding Green and Gunnison Rivers	IV-D
Green River	IV-E
Gunnison River	IV-F
GULF OF MEXICO EXCLUDING MISSISSIPPI RIVE	R:
Excluding Rio Grande and Mermentau River	V-A
Rio Grande:	
Rio Grande below Fort Quitman, Texas	V-B
Rio Grande above Fort Quitman	
Mermentau River	V-D
MISSISSIPPI RIVER:	
Excluding Arkansas and Missouri Rivers	VI-A
Arkansas River	VI-B
Arkansas River Missouri River: Below Three Forks, Mont., exclud	ing
Platte and Yellowstone Rivers	VI-C
Platte River:	
Excluding South Platte River	VI-D
South Platte River	V1-E
Yellowstone River:	
Excluding Bighorn River	
Bighorn River	VI-G
Missouri River headwaters above Three Forks, M	
tana	VI–H
HUDSON BAY (Red River of the North)	VII

ENUMERATION FORMS AND PROCEDURES

Introduction.—The primary purpose for the formation of an irrigation enterprise, organization, or system is to obtain water from natural sources and deliver it to water users. Under a broad interpretation, a system could include a formal or informal cooperative undertaking or a single enterprise. Water may come from ground sources or from surface sources. In many areas it is necessary to store water from melting snow or winter rain in order to have a more adequate supply during the growing seasou.

Most commonly, the water is stored in a reservoir behind a dam built across the stream which furnishes the water. Occasionally, a more economical location for water storage is off the stream which supplies the water and an off-stream reservoir has been constructed.

Medium and large-size irrigation systems will necessarily have one or more main canals or pipe lines to convey water to the area to be served, commonly using gravity flow. Main canals may deliver water to smaller canals, usually called laterals, which carry the water to a group of water users located along the lateral.

Many enterprises which deliver water for the irrigation of farm and ranch land perform other functions. These may include the generation of electric power, flood control, artificial drainage of lands, and the delivery of water for other uses. These other uses may be divided into two groups. The first group includes: Domestic and residential users, including lawn and garden watering; municipal water supply; water for industrial purposes; livestock watering; and water spreading for the recharge of groundwater supplies. The water involved in these uses and for the irrigation of farm and ranch lands must be taken from streams or other natural sources. These are the uses for which information was obtained in a census of irrigation, on water delivered by irrigation enterprises.

The other group of water uses for which water is delivered includes power generation, streamflow regulation for navigation, waste dilution, and for fish and wildlife. The water involved in this group either is not taken out of streams or, after diversion, is returned without any substantial loss in quantity. The census of irrigation has not been concerned directly with this second group of water uses.

The 1959 Census of Irrigation was concerned with finding out the amount of water taken from natural sources by irrigation organizations; accounting for the transfers between the organizations which had a part in water conveyance or delivery; and determining how much was delivered to farms, how much was lost along the way, and how much was delivered for uses other than irrigation of farm and ranch lands. The 1959 Census of Irrigation did not ascertain data in respect to the conveyance loss and use of water by an individual farmowner or operator.

The various organizations which depend on one another for the receipt or delivery of water are referred to as "related organizations." They may be quite independent in ownership and mangement, but they are related in the sense that water is transferred from one organization to another as it moves from its source to the individual user. These related organizations present special problems in their enumeration. An organization which operates facilities in more than one drainage basin also presents problems for enumeration.

In the period since the first census of irrigation there have been changes in the techniques and organization of irrigation water supply, in the kind of information needed, and in the type of data which can be reliably and economically obtained by census procedures. In recognition of such changes, each census has incorporated some modifications from its predecessor. The 1959 forms and procedures and the major changes made for the 1959 Census of Irrigation as compared with that of 1950, are outlined in this section. The effect of these changes will be indicated in more detail in the section on "Definitions and Explanations."

Organizations included.—For 1959 Census of Irrigation, an irrigation organization was defined as a group of two or more water users, a company, or a governmental district or agency that operated facilities to supply water for irrigation of farm and ranch lands. It may have been either a formal, legal organization or an informal or cooperative arrangement. The facilities of an organization were not required to supply water directly to farms but the water stored or conveyed had eventually to serve 2

or more farms. The organizations enumerated in 1959 correspond closely to the "multiple-farm enterprises" for the 1950 consus

In the 4950 and earlier censuses of irrigation, special questionnaires were also obtained for those farms which operated their own supply works to bring water to the farm, either from natural sources or from a canal or pipeline of an irrigation organization (if located more than a mile from the farm boundary, or if a pump were required to lift the water from an irrigation canal to the farm). The 1950 questionnaire did not, however, cover the process of conveying and distributing the water on the individual farm. Thus, a farm which operated a pump to lift water from an irrigational canal was regarded as an irrigation enterprise for the supply of water to two or more farms, and a special questionnaire was obtained. But a farm which received water by gravity from a canal was not regarded as an irrigation enterprise, even though it may have operated expensive works for the distribution of water on the farm.

Elaborate facilities for distributing and applying irrigation water on the farm are now more common than when the first census of irrigation was taken, and thus there has been an increasing investment by farmers in land leveling, distribution systems, sprinklers, etc. From the point of view of the farm economist or the equipment supplier, the facilities for the conveyance and application of water on the farm may be as important as those operated to bring water to the farm. This fact has influenced the kind of information collected in the census of irrigation. It has become more difficult for farmers and census enumerators to report cost and other information for works operated to bring water to the farm, separately from that for facilities for distribution and application on the farm. This is especially true when the same pump is used to obtain water from a well or canal and also to provide pressure to pipelines or sprinklers on the farm. However, the inclusion of on-the-farmirrigation operations in the census of irrigation would greatly increase the cost of data collection. In 1950 the collection of 298,000 questionnaires would have been required for coverage of irrigation facilities on all irrigated farms in the 20 States. Because of costs, data on irrigation facilities on individual farms were not collected in connection with the 1959 Census of Irrigation.

As a result of the exclusion of irrigation enterprises providing water to only one farm from the 1959 census, the definition of water delivery by multiple-farm irrigation enterprises directly to farms was altered for application in 1959. In the 1950 census, if a farm operated more than a mile of canal, or if it used a pump to bring water to the farm from a canal or pipe operated by a multiple-farm irrigation enterprise, then the farm-operated supply works were considered to be an irrigation enterprise apart from the farm itself. In such a case the multiple-farm enterprise was not considered to deliver water directly to a farm but rather to another irrigation enterprise (a single-farm enterprise) which in turn delivered water to the farm. In 1959, however, any delivery by a multiple-farm enterprise to works operated by a single farm was considered to be water delivered directly to a farm.

Because the 1959 Census of Irrigation was confined to irrigation organizations, omitting individual farm water supply systems, Arkansas and Florida, which have few irrigation organizations, were not included in the census. These two States were included in the 1960 Survey of Irrigation in Humid Areas.

Questionnaires.—Three questionnaires, designated 1-1, 1-2, and 1-3, were used to enumerate irrigation organizations in the 1959 Census of Irrigation. Each of these asked for essentially the same kind of information. They differed only in their adaptation to the peculiarities of the type of organization each was designed to enumerate. The 1-1 form was used to enumerate organizations which operated facilities within one drainage basin and neither received any water from another organization nor

delivered water to another organization. The I-2 questionnaire was used to cover the operations of those organizations which operated facilities entirely within one drainage basin but which obtained part or all of their water from another organization and/or delivered part or all of their water to another organization. The I-3 reporting form was utilized to enumerate organizations which operated facilities in more than one drainage basin and also to enumerate some organizations which operated large off-stream reservoirs. (Facsimile copies of these three questionnaires are included in the appendix.) Whenever irrigation water was transferred in canals, pipes, or tunnels from one drainage basin to another, the organization in whose facilities it crossed the boundary was considered as an interbasin organization.

The questionnaires contained inquiries to ascertain the legal type of organization; the number of water users served—farm, residential, and others; the number of acres served and the number of acres actually irrigated; the amount of water obtained by source; the amount of water disposed of by type of disposition; whether or not the land served by the organization received water from other sources; and the amount of new capital investment since 1950. Other questions were included, some of which enabled the enumerators to determine whether or not the organization reporting met the definition of an irrigation organization, and some of which gave information useful in the checking of other data reported on the questionnaires.

The I-I questionnaire did not include inquiries for reporting deliveries of water to other organizations, although it did include questions to determine whether or not such deliveries should have been reported. The l-I questionnaire also made provision for the respondent to report water quantities in units other than acre-feet. The respondent could report either in volume units or flow units in accordance with the way he kept his records or was accustomed to measuring water.

The I-2 questionnaire did provide inquiries to ascertain interorganization transfers. A separate worksheet was furnished the enumerator for use in making entries on the I-2 questionnaire in converting water quantities reported in volume units other than acre-feet, or in flow units, to acre-feet.

The 1–3 questionnaire used for the enumeration of all interbasin organizations, provided for the accounting of all water obtained and disposed of by drainage basins. Transfers between basins were reported. The 1–3 questionnaire was also used to enumerate organizations which reported the use of off-stream storage.

The questionnaires for the 1959 Census of Irrigation were prepared by the Bureau of the Census. Two special committees provided advice and counsel. A Special Federal Agency Committee, for the 1959 Censuses of Irrigation and Drainage, comprised representatives of the following United States agencies: Agricultural Conservation Service, Agricultural Research Service, Rural Electrification Administration, and Soil Conservation Service of the United States Department of Agriculture; and the Bureau of Indian Affairs and the Bureau of Reclamation of the United States Department of the Interior.

A second committee, the Special Advisory Committee for the 1959 Census of Agriculture, reviewed the later stages of the planning. This committee consisted of one representative from each of the following: Agricultural Publishers Association: American Association of Land Grant Colleges and State Universities; American Farm Bureau Federation; American Farm Economic Association; American Statistical Association; Farm Equipment Institute: National Association of Commissioners, Secretaries, and Directors of Agriculture; National Council of Farmer Cooperatives: National Farmers' Union; National Grange; Rural Sociological Society; and the U.S. Department of Agriculture. A representative of the Bureau of the Budget was in attendance at all meetings of this committee.

Enumerator drainage basin maps.—Inasmuch as census data were to be published by drainage basins, it was important that the drainage basin location of each irrigation organization be determined. Each enumerator was supplied with a set of county highway maps for his enumeration area, on which the boundaries of the drainage basins had been traced. Each drainage basin was given a code number. The 1950 drainage basin location of each organization was provided to the enumerator on his control list of organizations. As each organization was enumerated the drainage basin location was checked on the maps. Steps, which will be described later, were taken during the processing operations to provide the drainage basin location of organizations submitting reports by mail.

The enumeration.—The enumeration of the irrigation organizations, for the 1959 Census of Irrigation, was accomplished during December 1959, and January, February, and March 1960. The reports covered water supply activities during the 1959 calendar year. In case water was delivered in the winter months, and the organization's records were kept on a fiscal year basis, the fiscal year figures were accepted if the fiscal year ended within three months of the end of the 1959 calendar year. Data pertaining to the expenditures for works and equipment were reported for the ten-year period, January 1, 1950, through December 31, 1959.

Prior to the beginning of the enumeration, lists of irrigation organizations were compiled from the records of the 1950 census and from information supplied by the Bureau of Reclamation. Bureau of Indian Affairs, and various State agencies. The organizations were classified, on the basis of available information, into interbasin organizations, interrelated organizations, and nonrelated organizations. Interbasin organizations included those with operations in more than one basin, interrelated organizations comprised those that received or delivered water to another organization, and unrelated organizations included all other organizations. The classification of individual organizations was made usually on the basis of information obtained from the 1950 questionnaires.

Questionnaires were mailed to the nonrelated organizations with a letter requesting that they be filled out and returned to the Agriculture Operations Office of the Bureau of the Census in Parsons, Kansas. Questionnaires were also mailed to interrelated and interbasin organizations to give these organizations advance notice of the enumeration and allow them sufficient time to prepare the information for their reports before an enumerator called.

The area of the 18 States in which the irrigation census was conducted, was divided into 80 enumeration districts in accordance with the number of organizations to be enumerated, the distribution of the organizations, and travel conditions in the area. Approximately 80 enumerators were selected from among the crew leaders, who had worked on the 1959 Census of Agriculture. These enumerators were given a two-day training course in irrigation enumeration procedures and in the use of the irrigation questionnaires.

Each enumerator was given a "field control card" for each organization to be enumerated in his area. These control cards included those for all the interrelated organizations and also those nonrelated organizations which had not submitted a report by mail.

The enumerators were instructed to enumerate all the interrelated organizations in their area, including any unlisted organizations which might be related to organizations they enumerated, except interbasin organizations. Each enumerator was notified of the receipt, by mail, of completed questionnaires from the nonrelated organizations in his area. He was instructed to enumerate all organizations for which he had not received such a notice. Three special enumerators were recruited for the enumeration of all interbasin organizations. These enumerators were agriculture economists from the Land and Water Branch of the Farm Economics Research Division, Agriculture Research Service, U.S. Department of Agriculture. They were trained by the irrigation economist in charge of the census of irrigation.

Reports for projects operated by the Bureau of Reclamation and the Bureau of Indian Affairs of the Department of the Interior were prepared by the respective bureaus.

Special provision was made to insure the enumeration of irrigation organizations not on any control list. Each farm operator who received irrigation water from an irrigation organization was asked, on the 1959 Census of Agriculture questionnaire, to report the name of the organization or organizations from which water was received. During the processing of the census of agriculture questionnaires, a transcription card was prepared the first time each organization's name appeared. These cards were checked against the listing of the organizations supplied to the enumerators. Reports for unlisted organizations were obtained either by mail or by the enumerators.

PROCESSING OPERATIONS

Completion of enumeration.—As irrigation questionnaires were received by mail from the irrigation organization in the Agriculture Operations Office in Parsons, Kansas, the date of receipt was posted on the control list for irrigation organizations. Likewise, as an enumerator completed his assignment in a county, he forwarded the completed questionnaires to the same processing center. A check was then made of the control list for the county to ascertain the degree of completion of the enumeration in the county.

Preliminary checking .- All irrigation questionnaires, whether received directly from irrigation organizations or from enumerators, were subjected to a preliminary checking to determine whether or not they were satisfactorily filled. To be considered satisfactory, dependance was placed primarily on the extent to which "quantity of water" information was furnished in relation to the number of acres served by the organization. If the organization served less than 500 acres, its report was considered satisfactory when the number of acres irrigated and the number of farm water users was reported and the source of water indicated. If the organization served 500 or more acres, its report was considered satisfactory only if the actual quantity of water obtained was reported or if the report contained information which would make possible a reasonably accurate estimate of the quantity of water. The questionnaires of interrelated organizations were checked to make sure the interorganization transfer quantities were in reasonable agreement.

Questionnaires which were considered unsatisfactory were returned to the enumerator with a memorandum containing instructions for obtaining the additional information needed.

Editing and coding.—Each questionnaire was edited and coded before the information was transferred to puncheards and tabulated. The questionnaires were arranged for editing into 3 groups—nonrelated, interrelated, and interbasin.

Questionnaires which did not represent an irrigation organization in accordance with the census definition were eliminated. Questionnaires eliminated included those reporting organizations providing water to less than 2 farms, reports for organizations serving only residential water users, and reports for organizations which did not operate water supply facilities in 1959.

In the editing process, all questionnaires were examined for errors, omissions, and inconsistencies. Among the specific items subjected to checking were the following:

a. Farm water users served: The relationship between number of farm water users, the acres served, the area irrigated, and the quantity of water delivered were checked to be sure they were reasonable.

- b. Residential or other water users served: The number of residential or other water users was checked with the quantity of water delivered to see that the relationship was reasonable.
- c. Water obtained and disposed of: Checks were made to insure that the quantity of water received was equal to the quantity of water disposed of.
- d. Conveyance loss: A report regarding conveyance loss was necessary unless a satisfactory explanation was given as to why there was no conveyance loss.

Obvious errors in calculations and in units of measure and misplaced entries were corrected as found. Entries not clearly legible were rewritten. Questionnaires containing major inconsistencies and omissions were referred to irrigation technician for review. The technician corrected the questionnaires, either on the basis of information reported for other organizations in the area or on the basis of additional information received in response to letters directed to the organization.

A water quantity reported in a unit, other than acre-feet, was converted to acre-feet. Estimates for quantity of water were made when required for organizations which reported less than 500 acres of land irrigated. These estimates were made on the basis of information reported for other organizations of similar type in the area. In the case of the interrelated organizations, interorganization transfers of water were compared and discrepancies corrected. Discrepancies of less than 300 acre-feet between reports of two interrelated organizations were corrected by the elerks, in accordance with the following rules:

- If only one organization reported the transfer of water, the transfer was cancelled and the other figures in the questionnaire were adjusted to make water obtained equal to water disposed of.
- 2. If both organizations reported the transfer but the amounts differed by a quantity of less than 300 acre-feet and one of the organizations reported measuring its water while the other did not, the report of the organization making measurements was accepted. If neither organization measured the water, each report was adjusted by an amount equal to one-half the difference.

Discrepancies between the reports of two interrelated organizations of 300 or more acre-feet, for water transferred, were referred to an irrigation technician. Discrepancies of 300 to 999 acre-feet were corrected by the technician on the basis of other information on the questionnaires. In all cases of discrepancies of 1,000 acre-feet or more, letters were sent to the respondents of both organizations pointing out that a discrepancy did exist although not revealing the quantity and asking that the reported tigures be reviewed, and any necessary corrections be made. In nearly all cases the replies to these letters contained information which made nossible the correction of the two reports.

The drainage basin location of organizations which reported by mail was supplied on the basis of information from the 1950 irrigation questionnaires. For organizations which were not enumerated in 1950, or for which there was any question about the drainage basin in which located, the information given on the questionnaire as to the location of the sources of water, or the land irrigated, was checked against the drainage basin maps to determine the drainage basin in which the organization was located.

The questionnaires of all interbasin organizations were edited and coded by irrigation technicians, in accordance with the same rules used for questionnaires for interrelated organizations. To facilitate tabulations, a questionnaire was prepared for each basin. Thus, if an organization operated in three drainage basins, three questionnaires were prepared, one for each basin in which it operated.

During the coding operation each irrigation organization was assigned a code to indicate (1) drainage basin in which located, (2) the legal type of organization, (3) whether or not water from other sources was used on the same land served by the irrigation organization, and (4) the amount of water delivered to farm users per acre irrigated by the organization.

Tabulation of data.—After the questionnaires were edited and coded, the information was punched into tabulating cards. One card only was required for each questionnaire. A tabulation was made for each individual drainage basin. Totals were obtained for the additive information on the cards for each drainage basin. This tabulation was examined by the irrigation technician for reasonableness and consistency. After the review and correction of this tabulation another tabulation was made, by type of organization for submajor drainage basins and States. This tabulation was reviewed for reasonableness and consistency, before the remaining tabulations were made.

DEFINITIONS AND EXPLANATIONS

The definitions and explanations which follow relate mostly to those 1959 items considered to be inadequately described in the tables.

Irrigation defined.—The term "irrigation," as herein used, refers to the application of water, by artificial means, to land being used for agricultural purposes. These artificial means include subirrigation as well as application of water to the ground surface either by general flooding, by basins, and by furrows, or less directly through the use of sprinklers.

Irrigated land.—Irrigated land includes any land in farms (and ranches) to which water was applied in the year covered by the enumeration. Irrigation may have been used for producing a harvested crop, for pasture or grazing lands, for cultivated summer fallow, or for land planted to a crop intended for future harvest. Land flooded for rice cultivation was considered as irrigated. Land flooded during high water periods was to be included as irrigated only if water was diverted to agricultural lands by dams, canals, or other works. The definition of irrigated land specifically excluded land where the water table or the natural level of the ground water was controlled by drainage works with no additional water brought in by canals or pipes.

Census definition of a farm.—For the 1959 Ceusus of Agriculture, the definition of a farm was based primarily on a combination of "acres in the place" and the estimated value of agricultural products sold.

The word "place" was defined to include all land under the control or supervision of one person or partnership at the time of enumeration and on which agricultural operations were conducted at any time in 1959. (For definition of "agricultural operations," see p. ix of the Introduction to volume II of the reports for the 1959 Census of Agriculture.) Control may have been exercised through ownership or management; or through a lease, rental, or cropping arrangement.

Places of 10 or more acres in 1959 were counted as farms if the estimated sales of agricultural products for the year amounted to at least \$50. Places of less than 10 acres in 1959 were counted as farms if the estimated sales of agricultural products for the year amounted to at least \$250. Places not meeting the minimum estimated level of sales in 1959 were nevertheless counted as farms if they could normally be expected to produce agricultural products in sufficient quantity to meet the requirements of the definition. This additional qualification resulted in the inclusion as farms of some places that were engaged in farming operations for the first time in 1959, as well as places affected by crop failure or other unusual conditions.

Land in farms according to use.—Land in farms was classified according to the use made of it in 1959. The acreage in each farm was allocated among the various land-use categories only once, and any acreage that had two or more uses during the year was classified according to its most important use.

Cropland harvested.—This includes land from which crops were harvested; land from which hay (including wild hay) was cut; and land in small fruits, orchards, vineyards, nurseries, and greenhouses. Land from which two or more crops were harvested was to be counted only once. The entry for cropland

harvested was obtained directly from the farm operator and then verified by the census enumerator by adding the acreages of each crop reported and subtracting from this total the acres of land from which two or more crops were harvested. This checking was repeated during the office processing for farms with 100 or more acres of cropland harvested. The enumerator was directed to list only under "Cropland harvested" any acreage that had additional uses during the year. For instance, any land from which hay was cut was classified as cropland harvested, regardless of the use of land for grazing later in the year.

Cropland used only for pasture.—The enumerator was instructed to include all land used only for pasture or grazing trate tould have been used for crops without additional improvement, and all land planted to crops that were hogged off, pastured, or grazed before reaching maturity. In the census of 1954 the enumerators were instructed to report rotation pasture and all other cropland used only for pasture as cropland used only for pasture as cropland used only for pasture.

Cropland not harvested and not pastured.—This class includes cultivated summer fallow, cropland used only for soil-improvement crops, land on which crops failed, land planted to crops for harvest after the year covered by the census, and idle cropland. The data for this class for 1959 were obtained through the use of two inquiries in some States and three in other States as follows:

Cultivated summer fallow.—This land use was obtained for the 17 Western States in the conterminous United-States. The acreage of cultivated summer fallow is negligible in those States where the inquiry was not included on the questionnaire. For the censuses of 1959, 1954, and 1950, cultivated summer fallow was defined as cropland that was plowed and cultivated but left unseeded to control weeds and conserve moisture. Separate data are not available for 1945 and earlier censuses.

Cropland used only for soil-improvement crops.—Only land used for cover crops, to control erosion or to be plowed under for green manure and planted to another crop, fell into this category. A large proportion of this land was covered by contracts of the Soil Bank. The enumerator was cautioned not to include land from which crops were harvested in the census year or land that was pastured or grazed. There was no separate inquiry for soil-improvement purposes was included under other cropland not harvested and not pastured.

Other cropland not harvested and not pastured.—All cropland except cropland harvested, cropland in cultivated summer fallow, cropland pastured, and land used only for soil-improvement crops was included in this land-use class. This total included all acreage on which crops failed because of drought, floods, insects, etc.: acreage not harvested because of low prices or labor shortage: acreage not harvested but occupied by growing crops intended for harvest in later years; acreage which had been plowed, and could be plowed again without first clearing away brush, but which had been idle for one or more years.

Woodland pastured.—This includes all woodland that was used for pasture or grazing during the census year. According to instructions, woodland refers to woodlots and timber tracts, natural or planted.

Woodland not pastured.—The enumerator was instructed to include in this category land in the Soil Bank planted to trees.

Other pasture.—All land, other than woodland and cropland, used for pasture or grazing was designated other pasture.

Improved pasture.—A pasture that had been limed, fertilized, seeded, irrigated, drained, or cleared of weeds or brush was to be considered improved pasture.

All other land.—This item refers to all land not included in any of the preceding land-use items and includes land occupied by a house or other buildings; lanes, roads, and ditches; and land area of ponds and wasteland. Unusually large tracts of other land held primarily for purposes other than agriculture were excluded from the tabulations.

In summary tables 6 and 11, the "total acres irrigated in census year" is shown for 1959 and 1949. The 1959 data were obtained in the general census of agriculture while those for 1949 were obtained in the 1950 Census of Irrigation. The most useful comparison of drainage basin totals was made possible only by using data from the two sources. Data in respect to the number of irrigated farms and acreage of irrigated land collected in the census of agriculture are more accurate than those collected in the census of irrigation. The 1950 Census of Agriculture data were not apportioned to drainage basins. However, the 1950 Census of Irrigation acreages, throne" a process of reconciliation,

were brought into reasonable agreement with the 1950 Census of Agriculture irrigated acreage. (See page XXIV for a discussion of the method used in 1950 to reconcile census of irrigation data with similar data gathered in the census of agriculture. See also "Area reported irrigated by organizations" on page XXI.) The State totals for 1959 correspond with those reported in volume 1 of the reports for the 1959 Census of Agriculture.

Irrigated farms.—All farms with any land irrigated in 1959 are counted as irrigated farms. The extent of irrigation on any particular farm could have ranged from an adequate and timely supply of water for all crops and pasture to an inadequate supply of water with the result that the crop irrigated was not worth harvesting or it was harvested for a purpose different than the purpose for which it was plauted.

If, from the total number of irrigated farms, as shown in summary table I, the number of farms reporting irrigated cropland harvested is subtracted, the resulting difference represents those irrigated farms which had no irrigated harvested crops. These farms could have had irrigated pasture (any kind of pasture land which was not used for crop production in the census year), land planted to an irrigated crop intended for future harvest, land in entitivated summer fallow, land which was irrigated in the census year and was being prepared for seeding a crop for harvest in a later year, and land in a crop which was irrigated in the census year but which was a complete failure.

Irrigation organization .-- An irrigation organization is a business comprising a group of two or more water users, a company, a corporation, or a governmental district or agency that operates facilities to supply water for the irrigation of farm and ranch lands. It may be either a formal, legal organization or an informal or cooperative arrangement. To be included in the census of irrigation two or more farm water users had to be served by the water which was stored or conveyed by the facilities of an organization but these water users did not have to be served directly. Thus, if a storage reservoir released water into a stream channel which was picked up downstream by another organization which served two or more farms, the organization which owned the reservoir qualified as an irrigation organization. Likewise, if all the water of one organization was received into facilities of another organization, both were included as irrigation organizations provided two or more farm water users were served. In the first example, the reservoir would be included as an organization which did not convey water.

An organization was included in the census, if any of the water stored or conveyed in its facilities was used for farm irrigation even though irrigation was not the main purpose of the organization. Organizations which did not operate water supply works, in 1959, because of water shortage or other reasons were not included.

An irrigation system operated by a single farm primarily to supply water for that farm was not counted as an irrigation organization, though it may have supplied water to one or more other farms. (In 1950, a total of 105,254 single-farm irrigation enterprises were reported in the 18 irrigation States, and they supplied water to 7.125 other farms.) However, if a ditch, pump, or other works which supplied water to two or more farms (or water users) was operated as a cooperative undertaking of two or more farmers or water users, it was included as an irrigation organization. The determination as to whether a small irrigation system serving two water users is operated by one of them or by both jointly is difficult in some cases, particularly if the two water users have such relationships as landlord and tenant, or father and son. The determination of whether the persons providing water to two or more water users qualified as an irrigation organization may not always be made in a uniform basis from census to census; and thus, part of the change in the number of irrigation organizations may be the result of differences in determination of whether the organization meets the criteria

for inclusion in the census of irrigation. Changes in the number of organizations from census to census may arise from changes in the number of farm operators for the same land irrigated without any change in water supply facilities. For example, an irrigated tract of land may comprise three farms for one census and only one farm at another census because of the consolidation of farms?

Only organizations which divert, pump, store, or convey water used, at least in part, for irrigation are included. Water-user organizations which provide information or technical assistance and which represent the interest of water users, promote water development, etc., but do not operate any water supply facilities are excluded.

Many of the larger irrigation organizations deliver water by main supply canals to lateral ditches which are maintained by the water users served. The water users on each lateral may be more or less formally organized to perform any maintenance work required, or to hire such work performed. In some areas, it is the custom for each water user, individually, to maintain the portion of the ditch adjoining his property, without any joint action by the water users as a group. In most cases payments to the main supply organization are made by the water users individually, while in others a lateral organization makes the payment. The instructions to enumerators in 1959 provided that a group of water users operating a lateral ditch were to be counted as a separate organization if either (a) water was obtained from more than one source—that is, from another organization, or directly from a natural source as well as from another organization-or (b) the group collected payments from water users. If all water was obtained from another organization, and no cash payments were collected by the lateral, then the lateral was not to be considered as a separate organization and the water users and land were considered to be served directly by the organization from which the water was obtained,

The procedure for counting laterals did not affect the total acreage reported as irrigated by irrigation organizations although, in some areas, it may have affected significantly the number of mutual unincorporated organizations counted and the acreage served directly by each type of organization. If an irrigation district supplied water to laterals operated as unincorporated mutual organizations, the water users and land were tabulated as served directly by mutuals. If the laterals did not qualify as separate irrigation organizations, however, the water users and land were considered to be served directly by the irrigation organization delivering the water. These same criteria for the enumeration of laterals were generally followed for the

The definition of "irrigation organization" used for the 1959 census is essentially the same as that of "multiple-farm enterprise" used in the 1950 census.

Farm area reported served by organizations.—Farm area served is defined as the area for which farm water users were entitled to receive water in 1959. Land which may have been irrigated in some year previous to 1959, but was not irrigated in 1959, was to be included.

Area reported irrigated by organizations.—Each irrigation organization was asked to report the number of acres actually irrigated in 1959 with water from the organization. Acres irrigated were counted only for the organizations delivering water directly to farm distribution systems. Land eligible to receive water directly (i.e., delivered to farm distribution systems from two organizations) was reported by each, however, and hence is counted twice. The total acres irrigated, as reported by irrigation organizations, often provides an overstatement of the acres actually irrigated. Although defined the same as acres irrigated by multiple-farm enterprises in 1950, the figures reported in the 1959 Census of Irrigation are not strictly comparable with

those shown for the 1950 Census of Irrigation because the checking of reports for the 1950 Censuses of Irrigation and Agriculture resulted in the elimination of most of the overstatement of the acres irrigated by irrigation organizations for 1950.

Water users served, total.—A water user is defined as any person or organization, which received water for use on a farm, in a business, or in or around a home. Organizations reporting by mail were not provided with a definition: therefore, the number of water users reported depends on the interpretation of "water user" by the organization.

Farm irrigation water users .- A farm irrigation water user is one who received water for irrigation and who had ten or more acres of land from which in 1959 at least \$50 worth of agricultural products were sold, or if he had less than 10 acres at least \$250 worth of agricultural products were sold in that year. Users having smaller acreages of land or smaller sales were counted as residential or other water users. This definition was provided only to irrigation enumerators, and was not given to irrigation organizations submitting reports by mail. Although the definition corresponds to that of a census farm, it was recognized that irrigation organizations would be unable to determine which of the water users met the criteria, especially if the service area included many small tracts. Moreover, in some cases, a water user as shown by the records of the irrigation organization, may rent or lease all the acreage he controls to another person and hence not qualify as a census farm for the census of agriculture. The number of farm water users, as obtained in the census of irrigation, often exceeds the number of farms receiving water from irrigation organizations, as reported in the 1959 Census of Agriculture.

Residential water users.—A residential or domestic water user is one who received water for household use and/or to water lawns, flowers, shrubs, and vegetable gardens, but who did not sell enough products to qualify as a farm.

Other water users.—Other water users include industrial plants; recreational activities, such as golf courses; public institutions; etc.

Source of water.—The basic data in regard to irrigation water supplies—from either ground or surface sources—was obtained in the 1959 Census of Agriculture. The agriculture questionnaire contained an inquiry regarding the proportion of the irrigation water used on each farm from ground-water, surface-water, and irrigation-organization sources. Ground-water sources include wells (pumped or flowing) and springs; surface-water sources include streams, lakes, reservoirs, and sewage and drainage ditches. The percentages reported for each source were multiplied by the total area irrigated on each farm, during the office processing of the agricultural questionnaires. An allocation, between ground- and surface-water sources, was made of the water received by farms directly from irrigation organizations. This was accomplished as follows:

- 1. The irrigated acreage computed for ground, surface, and irrigation-organization sources as shown by the census of agriculture was totaled for each county.
- The quantity of water received from ground and surface sources as reported by irrigation organizations was tabulated for each drainage basin.
- 3. The calculated acres of land irrigated by irrigation organizations as shown by data from the census of agriculture was placed on a map with county and drainage basin, boundaries. If the county were entirely within a drainage basin, then the acres irrigated from ground and surface sources by irrigation organizations were allocated by multiplying the acres irrigated by the percentage of water irrigation organizations obtained from ground and surface sources in the drainage basin. If only a part of a county were in a drainage basin, then the acres irrigated by water from irrigation organizations as shown for the census of agriculture were allocated to each drainage basin on the basis of total acres irrigated by water from irrigation organizations for the minor civil divisions or other county subdivisions comprising the part of

the county within the drainage basin to the acres irrigated by water from irrigation organizations. The acreage irrigated by water from ground and surface sources was calculated for each drainage basin part of the county in the same way as for counties entirely within a drainage basin.

- 4. The total acreage irrigated by water from ground and surface sources was obtained by adding the calculated acreage for the counties and parts of counties comprising the drainage basin.
- 5. Totals for the acres irrigated by water from farm sources, by ground and surface sources were also obtained for each drainage basin by adding the data for the census of agriculture for the counties and parts of counties comprising the drainage basin. When only part of a county was within a drainage basin, the acres irrigated by water from farm sources, was obtained by totaling the acres irrigated for the minor civil division or other county subdivisions in the drainage basin.
- 6. To obtain totals for acres irrigated by water from ground and from surface sources, totals for water obtained from farm sources were added to the corresponding totals for water obtained from irrigation organization sources.

A conveyance system comprises the canals, pipes, and tunnels of an organization constructed to carry water from one place to another. It does not include drainage ditches not operated as water supply canals, nor reservoirs, nor stream channels.

Water delivered by an irrigation organization, to a water user or to another irrigation organization, means water which flowed from a canal, pipe, or reservoir operated by one organization directly into a canal, pipe, or reservoir operated by a water user or another organization. Water released to a natural stream channel for diversion by a water user or another organization downstream was not considered a delivery by the organization releasing the water; it was considered as spillback.

Quantity of water is given in the tables in acre-feet. An acre-foot of water is the quantity sufficient to cover 1 acre to a depth of 1 foot, or a total of 43,560 cubic feet. Quantities of water reported on the questionnaires in units other than acre-feet were converted to acre-feet.

Drainage basin is the area of land from which water flows into a given stream, lake, or other body of water or into a natural depression. Drainage basins from which water does not flow into streams that lead to the ocean are termed "independent basins"

The drainage basins for which data from the 1959 census have been tabulated are essentially the same as those used in 1950. Before enumeration, these maps were reviewed by field offices of the United States Geological Survey or United States Army Corps of Engineers. Some changes were made for 1959 in the drainage basin boundaries used in 1950 in order to conform more closely with the drainage basin boundaries used by other government agencies and with stream-gaging stations.

Water conveyed represents the net quantity of water entering the conveyance systems operated by irrigation organizations in each of the designated drainage basins. The quantities reported are "net" in that (1) water transferred from one irrigation organization to another is counted only once; and (2) water released from conveyance systems of irrigation organizations to reservoirs, streams, or drainage ditches or for ground-water recharge is not included. The figures include water conveyed only for withdrawal uses. They, therefore, do not include water used or released for navigation, fish and wildlife, pollution control, or hydroelectric power generation in the same drainage basin. (These uses were included in the 1950 Census of Irrigation and account for most of the water then reported for uses other than irrigation in 1950.)

Conveyed water from surface sources within basin.—Surface sources of water include streams, lakes, reservoirs, and sewage and drainage ditches. Surface water, obtained from natural sources by organizations, represents the amount by which irrigation organizations reduced the supplies of surface water in a particular drainage basin. Water obtained from another basin

released for any reason to surface sources from the conveyance system of an irrigation organization (considered to be a negative withdrawal) was subtracted from the amount withdrawn from surface sources in the drainage basin where the water is released. When the figures for all organizations in a basin were combined, the amount of such surface water diversions usually exceeded the amount of interbasin water transfers released to streams. However, in some basins the quantity of water transferred from other basins and released to streams was greater than the total surface diversions in the basin by the irrigation organizations in the basin, and in such cases, the quantity of water appears in the table as a negative number.

Water entering conveyance systems.—The total water entering conveyance systems in a drainage basin includes the quantity obtained from natural sources in the basin plus water received from other basins. The total water conveyed is shown in acrefect

Conveyed water from ground sources within basin.—Ground-water sources relate to wells (pumped or flowing) and water taken directly from springs. The amount of ground water represents the quantity taken from ground-water sources in each basin by irrigation organizations. In 1950, ground-water sources were defined to include only pumped wells.

Release of water from reservoirs.—Releases of water from reservoirs were reported as surface water only if water were diverted into a canal or piped directly from the reservoir itself. Releases from a reservoir to a stream channel for any purpose were not included. If water released by a reservoir were diverted from the stream below the reservoir the quantity reported as received was the amount diverted from the stream, not the amount released from the reservoir. The point of diversion was taken as the location at which the water entered the conveyance system and this could have been in a drainage basin other than the drainage basin in which the reservoir was located. The quantities of water delivered, conveyance loss, etc., in the tables, therefore, do not include reservoir inflows, releases, evaporation from reservoirs, nor changes during the year in the amount of water held in storage.

The quantity of water received for an organization operating a reservoir for storage purposes represented the amount of water entering the conveyance system plus the conveyance losses from the canal or conveyance system that conveyed the water into the reservoir. Thus water received does not include any allowance for changes in the amount of water in the reservoir nor for losses in the reservoir.

Water from other organizations in the basin.—The amount of water received from other irrigation organizations in the basin represents the quantity of water received into the conveyance systems of irrigation organizations from the conveyance system of other irrigation organizations in the same drainage basin.

Water from natural sources within basin.—This is the sum of the water withdrawn within the basin from surface- and groundwater sources.

Water from another drainage basin.—This represents the quantity of water conveyed into the drainage basin from an adjoining basin in a canal, pipeline, or tunnel operated by an irrigation organization. It includes the quantity of water which flowed across the basin boundary in irrigation conveyance systems, regardless of the use of that water. It does not include water flowing from one drainage basin to another in streams or drainage ditches.

Total water leaving conveyance systems.—The total water leaving conveyance systems of organizations is equal to the total water entering the conveyance systems of the organizations in a drainage basin.

Water delivered to farm irrigation water users represents the quantity of water which was delivered at the turnouts to individual irrigated farms. Any water delivered to farm irrigators and used for livestock or other nonirrigation purposes is also included, but the quantity of water used for these purposes represents a very small part of the total water delivered.

Water delivered to residential water users is the amount of water delivered by irrigation organizations to individual water users for household use and for watering lawns, flower gardens, vegetable gardens, etc. It does not include water delivered to urban water-supply systems.

Water delivered for other uses includes any water delivered by an irrigation organization other than water delivered (a) to farm irrigation water users, (b) to individual residential water users, and (c) to other irrigation organizations. It includes water delivered to municipal and suburban water systems not delivering any water for farm irrigation; water delivered for industrial uses; water delivered to farms which used water for industrial uses; water delivered to farms which used water for ground-water recharge. Water for other uses does not include water used for hydroelectric power generation only, or to maintain stream flow, for navigation, fish and wildlife protection. or for pollution control.

Water delivered to other irrigation organizations represents the amount of water conveyed from a pipe, canal, or reservoir operated by one irrigation organization into a pipe, canal, or reservoir operated by another irrigation organization, at points within the drainage basin. The amounts are the same as the quantities reported as received from other irrigation organizations in the same hasin

Water delivered for use in the basin is the sum of deliveries at points within the basin to farm irrigation water users, residential water users, and for other uses.

Water conveyed to another drainage basin is the amount of water conveyed from the drainage basin into an adjoining basin or basins, in the conveyance systems of irrigation organizations. The amount flowing across a drainage basin boundary in the conveyance system of irrigation organizations is counted regardless of its use. The disposition of such water is accounted for in the basin to which it was conveyed.

The figures are identical to those given under "Water conveyed from another drainage basin" but tabulated under the basin from which the water was conveyed. The lines in State table 1, entitled "From drainage basin number" and "To drainage basin number," together with the footnotes referring to those lines show the drainage basins involved in the interbasin transfers.

Conveyance loss in basin.—Conveyance loss is the amount of water lost from evaporation, seepage, and wastage not returned in canals or pipes to streams associated with the conveyance of water during the year in the canals and conveyance systems operated by irrigation organizations between natural sources and points of delivery to water users. Conveyance loss does not include losses from reservoirs, or in natural stream channels, or water released for any reason to streams or reservoirs. Losses in the distribution systems of the water users are not included.

The average delivery per acre is given separately for organizations, which did not report water from other sources used on the same land, and for those which did report water from other sources used on the same land. The organizations which did not report water from other sources used on the same land were classified according to the acre-feet of water delivered per acre irrigated, in order to provide more accurate data on the quantity of water used per acre. The classification of organizations operating in more than one basin was made on the basis of acre-feet of water delivered per acre irrigated for the entire organization rather than just the part within the drainage basin.

New capital investment, 1950-1959.- New capital investment represents the amount spent by irrigation organizations for additional new works and equipment for irrigation and drainage from January 1, 1950, to December 31, 1959. It includes expenditures for new construction, enlargement or improvement of works, or for purchase of additional new equipment. It includes only that portion of the cost of multiple-purpose works chargeable to the irrigation and drainage of farm and ranch lands, and the portion financed by the irrigation organization of the cost of works built jointly with another organization. It does not include expenditures for repairs and replacements, operation and maintenance, payment for works constructed before 1950, purchase of water rights, land, or stock or shares in another organization, or contracts or repayment for the purchase of works constructed by the U.S. Bureau of Reclamation or by any other irrigation organization. For new irrigation organizations with irrigation works under construction, the amount spent on both the completed and uncompleted parts of the works from January 1, 1950, to December 31, 1959, were included. However, new capital investments for any organizations that did not deliver water in 1959 were not included.

Each organization was asked to report only its expenditures for works and equipment by itself and not to include expenditures made by any other organization on works which the organization operated in 1959. In the case of works built by the Bureau of Reclamation but now operated by water users organizations, the amount of the expenditures made by the Bureau of Reclamation on the project from January 1, 1950, to December 31, 1959, was obtained from the bureau and included with the expenditures of the water users organizations. In summary table 18, expenditures made by the Bureau of Reclamation are shown separately from those made by other organizations.

For interbasin organizations the new capital investment was tabulated for the drainage basin in which the investment was made.

Type of organization.—The types of organization under which the data are classified are as follows:

Mntual or cooperative organizations.-Mutual or cooperative organizations are private (nongovernmental) organizations controlled or operated by two or more water users primarily to supply water to their own farms. They do not include district enterprises organized under special State laws. They do not have the power to levy taxes and they are operated for the benefit of water users rather than for the profit of owners. If 50 percent or more of the acreage irrigated was not in the farms of the water users who controlled and operated the enterprise, the organization was classified as "commercial." Mutual or cooperative organizations include partnerships of two or more farms which operate irrigation supply works or equipment; groups of water users informally associated under verbal or written agreements; mutual irrigation or water companies; water users associations; "lateral" companies; community ditches or "acequias" organized originally in accordance with old Spanish, Mexican, or Indian customs. Mutual or cooperative organizations may be either unincorporated or incorporated.

District organizations.—District organizations are public corporations established under special State laws to serve purticular purposes. A district organization may serve purposes other than irrigation of farm lands and may be known under a variety of names other than "irrigation district," such as conservancy district, water improvement district, water storage district, and State reclamation district. Reclamation districts organized under State laws should not be confused with the United States Bureau of Reclamation projects.

United States Bureau of Reclamation organizations .- As the name implies, United States Bureau of Reclamation organizations include the projects operated by the United States Bureau of Reclamation. If the operation of works constructed by the Bureau of Reclamation had been transferred entirely to a waterusers organization, the organization was classified according to the successor type of water-users organization such as district or mutual. If part of the works of the irrigation project were operated by the Bureau of Reclamation and part by a waterusers organization, the parts operated by each were reported as separate organizations. In summary tables 10 and 17, data for United States Bureau of Reclamation constructed projects transferred to water users for operation are shown separately. The data for these projects are also included with the type of organization in which the water-user organization was classified in 1959. The purpose for presenting these data separately is to give, as nearly as possible, complete information for all irrigation organizations built by the Bureau of Reclamation.

United States Bureau of Indian Affairs organizations.—These are organizations which were operated by the United States Bureau of Indian Affairs of the United States Department of the Interior.

Commercial organizations are privately operated organizations (by individuals, partnerships, or corporations) with 50 percent or more of the acreage irrigated in farms of water users who do not share in the control and operation of the organization. In some cases, commercial organizations are public utilities regulated by a State commission or by the governing board of a county.

State organizations are those operated by a State agency of any kind.

City or town organizations are those operated by municipalities usually in combination with a domestic water-supply system. If a city or town water-supply organization supplied water for the irrigation of 100 or more acres of agricultural land, it was enumerated as an irrigation organization.

Irrigation organizations by type of service provides a classification of organization by the extent to which water was conveyed by more than one organization between its diversion from a natural source and its delivery to individual water users. The irrigation organizations are classified according to the origin of water conveyed by the organization—that is, (1) all water from ground and surface sources only, (2) all water from irrigation organizations, (3) all water from ground and surface sources, and (4) organizations which conveyed no water in 1959. Organizations which conveyed no water in 1959 are those which operated reservoirs but not conveyance facilities.

Total water conveyed was obtained by adding together the amount of water obtained from surface- and ground-water sources and the amount received from other organizations. This procedure, therefore, caused a double counting of the water obtained from the other organizations if the water were included in the total conveyed by the receiving organization.

Because of the method of handling interorganization transfers released to streams, and organizations receiving water from other organizations and releasing part or all of the water to natural stream channels, negative quantities appear for the quantity of water "From surface and ground water sources," when the amount of water released to streams exceeds the quantity of water taken from sources within the basin or State.

Water from other sources.—The purpose of the question "Was any water from other sources or other organizations also used in 1959 to irrigate the same farm and ranch lands to which water was delivered by this organization?" was to provide a basis for selecting organizations which furnished all the water for irrigating farm and ranch lands in order to make tabulations of acres irrigated and water use for such organizations. The

classification of organizations by acre-feet of water used per acre was made only for those organizations reporting that they provided all the water used by the farms they served.

Size or organization.—Data are presented for three measures of the size of irrigation organizations. These measures are number of farm irrigation water users served directly, number of acre-feet of water delivered directly to farms, and number of acre-feet of water conveyed.

In the case of organizations operating in more than one drainage basin, all measures of size relate to operations of the irrigation organization in all basins rather than to the operations within one drainage basin.

Comparability of data for prior censuses and for the census of agriculture.—The comparability of data for the various censuses of irrigation have been affected by changes in definitions and procedures. The data for the census of irrigation and the census of agriculture are not fully comparable, because of differences in definition and the extent of reconciliation made in reports for the two censuses. The following discussion relates to most of the important differences in comparability.

Quantity of water by drainage basins, 1959 and 1950,-In 1959. a report was obtained for each irrigation organization for the quantity of water delivered to farm water users for each drainage basin. For 1950, data were not obtained from each irrigation organization for each drainage basin for the quantity of water delivered to farms. In 1950, irrigation organizations operating in more than one county or drainage basin reported 47 percent of all water delivered to farms and other irrigation organizations. For these organizations the quantity of water delivered to farms was allocated to drainage basins in proportion to the acreage irrigated by such organizations in each drainage basin. In 1950, no allocation was made by drainage basins of the quantity of water obtained from ground and surface sources, the quantity of water lost in conveyance, and the quantity delivered to other irrigation organizations. In the drainage basins, where a substantial part of the water is obtained from sources outside the drainage basin, the data for 1959 and 1950 are not fully comparable.

Farms or farm water users supplied by irrigation organizations and the number of farms reporting water received from irrigation organizations .- An examination of data for the number of water users or farms provided with irrigation water as reported by irrigation organizations and the number of farms receiving water from irrigation organizations for the census of agriculture indicates that the data from the two sources are not comparable. For example, for 1959, the number of farm water users as reported by irrigation organizations for the 18 States was 383,654. The number of farms reporting water received from irrigation organizations as shown by the census of agriculture for the 18 States was 153,704. In many cases, irrigation organizations count as the number of farm users, the number of stockholders, the number of ownership units, the number of persons paying bills, or the number of tracts eligible to receive water as the number of farm water users. When two or more irrigation organizations furnish water to the same water user, the water user is counted by each organization supplying the water. Undoubtedly some of the farm water users reported by irrigation organizations were landlords not operating a farm. In the census of agriculture, one farm operator often operates several tracts and rents land from several owners, or obtains water from more than one irrigation organization. In the census of agriculture, such a farm operation is counted as one farm. On the other hand in the census of irrigation, each owner of land or tract may be counted as a separate farm water user.

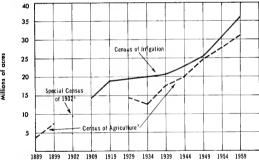
For the 1950 census, the number of farms receiving water as reported by each irrigation organization was checked against the records for the farm operators reporting water received from the irrigation organization as shown by the ceusus of agriculture.

The checking resulted in the number of farms reported as receiving water from irrigation organizations being reduced from approximately 400,000 to 246,000. Because of the correction in the number of farms furnished irrigation water as shown by reports of the census of irrigation as the result of the matching of reports for the census of irrigation with the reports of the 1950 Census of Agriculture, the number of irrigated farms shown for the 1950 Census of Irrigation is not comparable with number of farm irrigation water users reported for irrigation organizations in 1959 nor with the number of farm water users or irrigated farms reported for irrigation organizations for other censuses.

Acres irrigated as shown by census of irrigation and census of agriculture.—For every census, the area irrigated as reported by irrigation organizations has exceeded the acres irrigated as reported by the census of agriculture. The area irrigated as reported by irrigation organizations has been overstated for every census. The overstatement arises from two sources:

- 1. Some irrigation organizations report the area assessed for water, the area eligible to receive water, or the total area in farms receiving water. Usually these areas are considerably greater than the area irrigated during a year.
- 2. In some cases, two or more irrigation organizations provide water used to irrigate the same area. In such cases, the same area is counted by each of the organizations supplying the water.

ACREAGE OF IRRIGATED LAND FOR THE 17 WESTERN STATES AND LOUISIANA



'Total irrigated land, all States.

70 I 1893, 1893 and 1944 through 1959, all irrigated land in tarms; 1929 and 1934, acreage of irrigated crops only; 1939, acreage of irrigated crops only; 1939, acreage of irrigated crops plus irrigated pasture. Data for 1909 and 1919 not available.

A comparison of the area reported as irrigated by each irrigation organization and the area reported as irrigated by the farm operators receiving water from the organization was made for the 1950 census. This comparison resulted in the reduction of approximately 7 percent in the acreage irrigated as reported by irrigation organizations. In 1959, approximately one-seventh of all the irrigation organizations provided water to farms that also received irrigation water from other irrigation organizations. These irrigation organizations provided water for one-fifth of the area irrigated by irrigation organizations in 1959. However, the area receiving irrigation with water from two or more irrigation organizations represented about one-fifth of the area irrigated by all irrigation organizations.

For 1950, the overstatement of the area irrigated plus the duplication in the counting of the area irrigated by water from two or more irrigation organizations was equal to 12 to 15 percent of the area irrigated as originally reported by irrigation organizations for 1949.

For 1959, irrigation organizations reported 17.7 million acres irrigated. The calculations of area irrigated by water furnished by irrigation organizations for farms included in the census of agriculture was 12.9 million acres. Part of the 4.8 million acre

difference is the result of the counting by each irrigation organization of areas to which two or more irrigation organizations provided water, and part of the difference is the result of the overstatement of areas irrigated by irrigation organizations. Also, it is very likely that the method used in the 1959 Census of Agriculture for calculating acres irrigated by water furnished farms by irrigation organizations may have resulted in an understatement of the area actually irrigated. There were 27,102 farms, representing 10.1 percent of all the farms with irrigation in the 18 States that obtained water from on-the-farm sources and also from irrigation organizations. The total acres irrigated on these farms was 5.3 million, of which 2.6 million acres were allocated as irrigated by water from irrigation organizations. On many farms, where irrigation water is obtained from irrigation organizations, the cost of water from irrigation organizations is likely to be less than the cost of water obtained from wells, etc. Because of the differences in cost and in the availability of water during the irrigating season, it is very likely that the proportion of the area irrigated with water from irrigation organizations may be considerably greater than the proportion of water obtained from such source.

Becanse of the correction of the area irrigated by irrigation organizations on the basis of detailed comparisons of the reports for each irrigation organization with the records for the 1950 Census of Agriculture, the figures for the area irrigated by water from irrigation organizations for 1950 are not comparable with those for 1959 nor with those for 1940 and prior censuses. The difference between the area irrigated as shown by the 1959 census and the 1950 census for irrigation organizations overstates significantly the increase in the acreage irrigated by water furnished by irrigation organizations.

Irrigation in Hawaii.—The first census of irrigation organizations was taken for 1959. The figures for Hawaii have not been included with those of the 18 States in conterminous United States because comparative data are not available for prior censuses. There were 16 organizations qualifying for the census of irrigation in Hawaii in 1959; these 16 organizations provided water for 86,949 out of the 141,179 acres irrigated in 1959 in Hawaii. The following table presents a summary of the more significant data for Hawaii. Of the 16 irrigation organizations in Hawaii, 10 were operated by commercial organizations and 6 by the State, cities, and other agencies.

SUMMARY FOR IRRIGATION ORGANIZATIONS IN HAWAII: 1959

Item (For definitions and explanations, see text)				
Total acres irrigated in census year	141, 179			
Irrigation organizations 1959.	16			
Service area, 1959: Farm area reported served, by organizations. Farm area reported irrigated, by organizations. acres 1959. Farm area reported irrigated, by organizations. water users 1959. Water users served, total. water users water users 1959. Residential water users. water users 1959. Water users water users 1959. water users 1959. water users 1959. water users 1959.	244, 888 85, 251 50, 763 729 49, 342 692			
LAND IRRIGATED BY SOURCE OF WATER, 1959				
Oround water sources	74,000 67,000			
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959				
Total entering conveyance system in basinorganizationsacre-feet	1, 007, 106			
From natural sources within basin acre-feet are-feet.	1,007,106			
Surface waterorganizationsacre-feet	14 437, 395			
Oround waterorganizations_ acre-feet_	569, 711			
Total leaving conveyance systems organizations	16			
acre-feet_ Conveyance loss in basinorganizations_	1, 007, 106 10 122, 596			
Delivered for use in the basinorganizations_	16			
acre-feet organizations water users - organizations acre-feet	884, 510 16 803, 333			

SUMMARY FOR IRRIGATION ORGANIZATIONS IN HAWAII: 1959-Con.

Item (For definitions and explanations, see text)						
AVERAGE DELIVERY OF IRRIGATION WATER PER ACRE, 1959						
Per acre irrigated as reported by organizationsacre-feet	9.					
NEW CAPITAL INVESTMENT, 1950-1959						
Expenditures for additional new works and equipment for irrigation and drainage Jan. 1, 1950-Dec. 31, 1959organizationsdollars	5, 614, 47					
ACRES IRRIGATED						
Total acres irrigated	1, 25 141, 17 54 16, 06 47 13, 16					
LAND IRRIGATED, BY SOURCE OF WATER TO INDIVIDUAL FARMS, 1959	10,10					
Ground water sources on farmfarms reporting_	21					
acres. Ground water sources on farm only farms reporting acres. Surface sources on farm. farms reporting.	26, 08 16 9, 44 33					
Surface sources on farm only farms reporting farms reporting acres. Surface sources on farm only farms reporting acres.	28, 14 28 13, 12					
Irrigation organization sources	78					
Irrigation organizations sources onlyfarms reporting_	86, 94 71					
acres Both farm ground water sources and surface sources farms reporting						
Both Irrigation organization and farm ground water or farm surface sources	14, 90 6 21, 91					

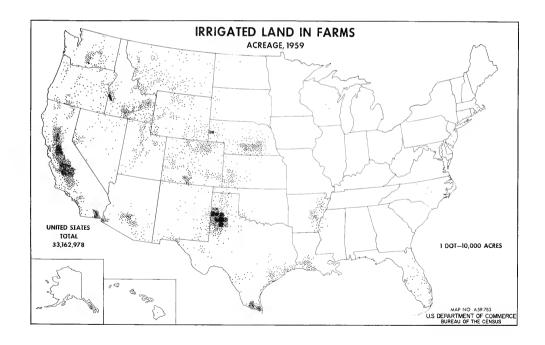
No data are available by drainage basins for Hawaii. Some irrigation works of considerable size are operated by sugarcane plantations to provide water for a single farm. Data for those irrigation operations for a single farm are not included in the data for irrigation organizations for Hawaii.

Irrigated land in sugarcane, vegetables, and pineapples accounts for more than four-fifths of the total acres irrigated in Hawaii. Detailed data regarding irrigated farms and the acreage and production of crops on irrigated land may be found in county tables 1a and 11a of part 50 of volume 1 of the reports for the 1959 Census of Agriculture.

SUMMARY

This summary presents both current and historical data pertaining to irrigated farms and irrigated land in farms obtained in the 1959 and earlier censuses of agriculture; and data pertaining to irrigation organizations from the 1959 and earlier censuses of irrigation; and data pertaining to irrigation water obtained in the 1959 and earlier censuses, both agriculture and irrigation.

Irrigated land in farms.—The acreage irrigated in 1959 for the 48 conterminous (Alaska and Hawaii are excluded) States was 33,021,799 acres according to the 1959 Census of Agriculture. This was 11.7 percent greater than the 29,552,155 acres reported in 1954 and 28 percent greater than the 25,787,455 acres reported in 1950 for the calendar year 1949. For the 17 conterminous Western States and Louisiana, the 1959 irrigated area amounted to 31,222,967 acres, or 94.6 percent of the irrigated acreage for the 48 conterminous States. The increase in irrigated acreage for the 18 States was 12.8 percent from 1954 to 1959 and 25.7 percent from 1949 to 1959.



The change in irrigated acreage in the 18 States varied considerably by geographic areas. Of the 6.4 million acres net increase from 1949 to 1959, 42.2 percent occurred in the Plains States of Texas and Oklahoma; 29.4 percent in the Northern Plains States of Nebraska, Kansas, North and South Dakota; and 22.8 percent in three Pacific States of California, Washington, and Oregon. In the eight Mountain States, the net increase was only 452,228 acres or 7.1 percent of the total increase in the 18 States. Decreases were reported for Colorado, Nevada, and Utah, and also for Louisiana.

The largest acreage expansion in the 10-year period in any individual State was recorded in Texas with an increase of 2,524,104 acres, or 80.6 percent increase in the irrigated acreage from 1949 to 1959. Nebraska had an increase of 1,201,667 acres, or 137.1 percent, and California an increase of 957,246 acres, or 14.9 percent from 1949 to 1959.

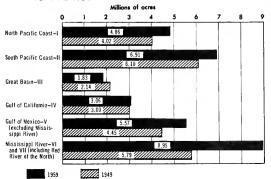
IRRIGATED LAND IN FARMS: 1959, 1954, AND 1949

Area or State	1959	1954	1949	
	(acres)	(acres)	(acres)	
48 conterminous States, total	33, 021, 799	29, 552, 155	25, 787, 455	
	31, 222, 967	27, 678, 507	24, 847, 341	
Northern Plains States	3, 003, 312	1, 630, 963	1, 128, 308	
North Dakota	47, 656	37, 672	35, 294	
South Dakota	115, 629	90, 371	78, 069	
Nebraska	2, 077, 926	1, 171, 369	876, 259	
Kansas	762, 101	331, 551	138, 686	
Southern Plains States	5, 853, 270	4, 815, 179	3, 165, 605	
Oklahoma.	197, 632	108, 151	34, 071	
Texas.	5, 655, 638	4, 707, 028	3, 131, 534	
Louisjana	484, 850	707, 818	576, 775	
Mountain States	12, 694, 712	11, 207, 997	11, 642, 484	
Montana	1, 874, 520	1, 890, 671	1, 716, 792	
Idaho	2, 576, 580	2, 324, 571	2, 137, 237	
W yoming	1, 469, 911	1, 262, 632	1, 431, 767	
Colorado	2, 684, 757	2, 262, 921	2, 872, 348	
New Mexico	731, 835	649, 615	655, 287	
Arizona UtahNeyada	1, 152, 450 1, 061, 683 542, 976	1, 177, 407 1, 072, 682 567, 498	963, 560 1, 137, 995 727, 498	
Pacific States (conterminous)	9, 786, 823	9, 316, 550	8, 334, 169	
	1, 006, 969	778, 135	589, 035	
	1, 384, 284	1, 490, 366	1, 306, 810	
California	7, 395, 570	7, 048, 049	6, 438, 324	

For the major drainage basins, the Mississippi River Basin, which includes all the Plains States except for the southern part of Texas, with 8.97 million acres, had the largest irrigated acreage, and its increase of 3.16 million acres over 1950 was the largest in any of the basins. The Great Basin had a small decrease in irrigated acreage from 1949 to 1959.

The different regional trends in the number of acres irrigated have been affected by a number of factors. The increase in

ACREAGE OF IRRIGATED LAND BY MAJOR DRAINAGE BASINS IN THE 17 CONTERMINOUS WESTERN STATES AND LOUISIANA: 1959 AND 1954

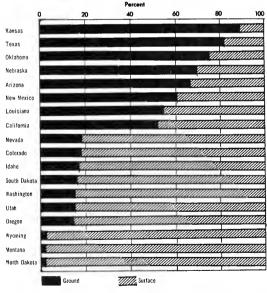


Nebraska, Kansas, Oklahoma, and Texas has been largely due to the development of ground-water supplies. In the Northern Plains States, irrigation expansion was in part the result of the development of large-scale public projects. In the Mountain States, ground-water supplies are not as ptentiful as in the Plains States and surface-water supplies were more fully developed before 1950. Irrigation growth in the Pacific States has resulted from the availability of both ground- and surface-water supplies and the development of targe-scale public irrigation projects. The decrease of irrigated acreage in Louisiana is targely the result of lower rice acreage, while the decrease in irrigated acreage in the Great Basin was largely the result of a water shortage in 1959.

Sources of irrigation water.—According to the 1959 Census of Agriculture, of the total of 31,222,967 acres irrigated in the 18 States, 13,243,912 acres, or 42.4 percent, were irrigated from ground-water sources on the farm; 5,081,250 acres, or 16.3 percent, were irrigated from surface-water sources on the farm; and 12,897,805 acres, or 41.3 percent, were irrigated by water received from irrigation organizations.

The irrigation organizations obtained the major portion of their water from surface-water sources. In the 18 States, the irrigation organizations reported 72,997,259 acre-feet of water were obtained from natural sources. Of this amount, 68,685,789 acrefeet, or 94 percent, was from surface sources.

PERCENTAGE DISTRIBUTION OF TOTAL ACRES IRRIGATED, BY SOURCE OF WATER, BY STATES: 1959



Arizona, Louisiana, and California are the only States in which the proportion of ground water obtained by irrigation organizations exceeded the average for the 18 States. In Arizona, irrigation organizations obtained 39 percent of the water from ground-water sources; in Louisiana, irrigation organizations obtained 16.4 percent; and in California, irrigation organizations secured 9.6 percent of the total water from ground-water sources.

To determine the total farm acreage irrigated from ground and surface sources, the acreage irrigated by organization water in each drainage basin was divided between ground and surface

IRRIGATION OF AGRICULTURAL LANDS

sources in proportion to the amount of water obtained from each source by the irrigation organizations and these figures were added to the acreage irrigated from farm ground and surface sources. In this manner, the total farm acreage irrigated from ground-water sources was determined to be approximately 14.0 million acres or about 45 percent of the total acres irrigated. The total farm acreage irrigated from surface-water sources equaled about 17.2 million acres or about 55 percent of the total acres irrigated.

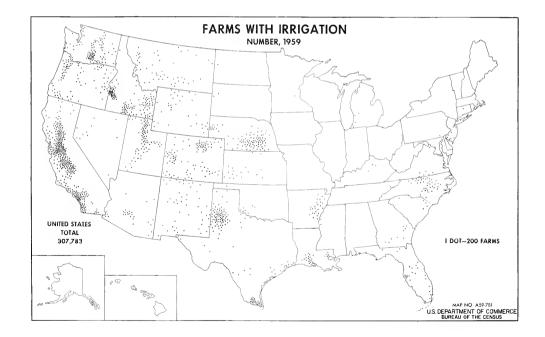
The percentage of the irrigation water which originated from ground or surface sources varied greatly among the 18 States. In Kansas 88.7 percent of the irrigation water was secured from ground sources. The corresponding percentages for North Dakota and Montana were 2 percent. The States with over 50 percent of the irrigation water received from ground sources were the Plains States of Nebraska, Kansas, Oklahoma, and Texas; and Arizona, New Mexico, and Louisiana. In each of the other 10 States, the proportion of the water from ground sources was less than 20 percent.

Irrigated farms.—There were 306,532 farms in the conterminous United States with irrigated land in 1959 according to the 1959 Census of Agriculture. In 1954, irrigated land was reported by 320,236 farms and in 1950 by 305,061 farms. The number of irrigated farms was almost the same in 1959 as in 1950 but the number decreased 4.3 percent between 1954 and 1959. In the 18 States the number of irrigated farms in 1959 was 7.4 percent smaller than in 1950 and 6.8 percent smaller than in 1951. The

number of irrigated farms decreased in all the Monntain States and in California and Louisiana. In each of the Plains States and Washington there was an increase in the number of irrigated farms from 1954 to 1959.

NUMBER OF IRRIGATED FARMS AND PERCENT OF ALL FARMS WITH IRRIGATION: 1959, 1954, AND 1950

Area or State	Number of irrigated farms			Percent of all farms reporting irrigation		
	1959	1954	1950	1959	1954	1950
48 conterminous States, total	306, 532	320, 236	305, 061	8.3	6.7	5. 7
18 States, total	267, 431	286, 793	288, 914	25.6	22.2	20.2
Northern Plains States	25, 001 471	16, 558 399	11, 957 304	8.2	4.8	3.2 0.5
North Dakota	1 000	923	807	0.9	0.6	1.2
South Dakota Nebraska	1,002 18,936	12, 500	9,680	20.9	12.4	9.0
Kansas	4, 592	2,736	1,166	4.4	2.3	0.9
Southern Plains States	30, 365	27, 935	21, 893	9. 4	6.8	4.6
Oklahoma	2, 481	1,620	466	2.6	1.4	0.3
Texas	27, 884	26, 315	21, 427	12.3	9.0	6.5
Louisiana	4,817	6, 897	7, 438	6.5	6.2	6.0
Mountain States	96, 094	112, 231	122, 280	64. 5	62.3	62.8
Montana	11, 935	13, 114	13, 457	41. 2	39.7	38.4
Idaho	25, 383	28, 218	29, 413	75. 4	72.8	73.0
Wyoming	6,412	7, 130	7,831	65. 8	62.5	62.1
Colorado	20, 312	23, 355	27, 121	60.8	57.3	59.5
New Mexico	8,850	11,690	12,691	55.6	55. 5	53.8
Arizona	5, 391	6,809	7,822	74.5	73.1	75.1
Utah	15, 701	19, 406	21, 126	88. 2	85.0	87.4
Nevada	2, 110	2,509	2,819	89.6	87.8	90.6
Pacific States (conterminous)	111, 154	123, 172	125, 346	57.5	50.8	47.0
Washington	19, 292	18,844	16,928	37.4	28.9	24.2
Oregon	17,724	19,826	17,663	41.6	36.4	29.5
California	74, 138	84, 502	90, 755	74.7	68.7	66.2



In the areas showing a decrease in the number of irrigated farms, the decline was largely the result of the consolidation of farms into larger operating units. The States with an increase in the number of irrigated farms also showed an increase in irrigated acreage. In the States with an increase in the number the existing farms and in some cases the introduction of irrigation resulted in the division of existing dryland farms into a larger number of smaller irrigated farms. With the exception of Arizona and Nevada, a larger proportion of the farms in each of the 18 States had irrigation in 1959 than in 1950. Irrigation organizations.—A total of 8.749 irrigation organizations was included in the 1959 Census of Irrigation in the 17 conterminous Western States and Louisiana. This compares with 10.491 organizations in 1950. In Kansas, North Dakota, and South Dakota there was a larger number of irrigation organizations in 1959 than in 1950.

Types of irrigation organizations.—The number of mutual organizations reported in 1959 was 7.726. Of these, 4.989 were classified as unincorporated and 2.737 as incorporated. The total number of mutual organizations had declined from 9.348 in 1950 when there were 6.464 unincorporated organizations and 2.884 incorporated organizations.

The number of mutual organizations, incorporated and unincorporated combined, decreased in 16 States. The decrease in the number of mutual organizations resulted from several factors. In California, the agricultural lands of many of the smaller organizations have been converted to urban uses. In New Mexico, many of the small organizations did not have a water supply in 1959 and, therefore, were not included in the census. In all States, some of the small mutual organizations which had served two or three farms in 1950, did not qualify for inclusion in the 1959 census because of the consolidation of the farms served by

The combined irrigated acreage reported by both the unincorporated and the incorporated mutuals equals 8.8 million acres. This is larger than the irrigated acreage reported by any other type of organization. However, the 6.9 million acres reported irrigated by irrigation districts is greater than the acreage reported by either type of mutual organization alone.

There were 558 irrigation districts reported in the 1959 Census of Irrigation which was an increase from 483 in 1950. The number of irrigation districts increased in 10 of the 18 States. In Nevada, the number was identical for both 1950 and 1959. There were no irrigation districts in Louisiana.

The number of projects or storage systems (see page xvi "Organizations included" for definition of project) operated by the Bureau of Reclamation increased from 37 in 1950 to 54 in 1959. The 54 projects reported 710,904 acres irrigated; however, these figures do not represent the total contribution of the Burean of Reclamation to irrigation. Usually as the Bureau of Reclamation completes a project, the project is turned over to a water-users organization for operation. These organizations were enumerated under the type of organization they represented (in most cases. irrigation districts). In the 1959 Census of Irrigation, there were 147 organizations which had been built by the Bureau of Reclamation but were then operated by water-users organizations. These 147 organizations reported 3.3 million acres irrigated. This represents the total number of organizations for which the irrigation facilities were built by the Bureau of Reclamation and turned over to water users for operation.

The number of commercial organizations in the 18 States, dropped from 401 in 1950 to 246 in 1959. There was a decrease in the number of commercial organizations in both Louisiana and California, the only States where commercial organizations are important. The decrease in the number of organizations in California was largely the result of farm lands being taken over for urban and suburban development. In Louisiana, a number of commercial irrigation organizations did not qualify for inclusion in the census because they provided water for only one farm.

According to the 1959 Census of Irrigation, there were 123 United States Bureau of Indian Affairs irrigation projects. This was a decline from the 141 reported in 1950. The decrease resulted largely from differences in counting projects as independent irrigation organizations, when some of the projects were controlled by the same part of the Bureau of Indian Affairs.

Interrelationships between irrigation organizations.—Many irrigation organizations do not deliver all of their water for irrigation direct to farms, but rather deliver part or all to other irriga-

tion organizations which may deliver to farms or which in turn may deliver water to still other irrigation organizations.

Out of the 8,749 total irrigation organizations, reported in the 18 States, 5.2 percent received part of their water from other organizations, and 8 percent received all of their water from other organizations. In the 18 States, irrigation organizations reported 56.1 million acre-feet of water delivered to farm and residential water users. Of this amount 18.8 percent was delivered by organizations which obtained part of their water from other organizations, and 7.5 percent was delivered by organizations, and 7.5 percent was delivered by organizations which received all of their water from other organizations.

The delivery of part of the water to other organizations was reported by 379 organizations or 4.3 percent of all organizations. The delivery of all water to other organizations was reported by only 67 organizations. Organizations supplying part of their water to other organizations delivered 8.7 million acre-feet of water to those other organizations or 9.5 percent of the total water conveyed, including water delivered to other organizations. Organizations, delivering all of their water to other organizations supplied 9.9 million acre-feet of water or 10.8 percent of the total water conveyed.

Size of organization.—Data are presented for the three measures of size of organizations. Acre-feet of water conveyed constitutes the most accurate measure of size. Of the 8,749 irrigation organizations in the 18 States, 8,669 conveyed water (the other 80 operated reservoir facilities and released all water to natural stream channels). The 8,669 organizations which conveyed water, reported an average of 10,571 acre-feet of water conveyed. This average includes quantities delivered to other organizations. More irrigation organizations were in the size group conveying 300 to 999 acre-feet of water than in any other size group. There were 1,707 organizations which conveyed 1 to 299 acre-feet and 2,059 organizations which conveyed between 1,000 to 2,999 acre-feet. There were 132 organizations which conveyed over 100,000 acre-feet of water.

Capital investment.—The data given for capital investment of irrigation organizations are not precise. In the 1940 Census of Irrigation the organizations were asked to report the total investment in their works and equipment as of December 31, 1939. In the censuses of 1950 and 1959 the organizations were asked to report only capital investments made during the 10-year period preceding the census. These figures which have been added together to obtain total capital investment and the total have not been adjusted to take into account changes on the price level. The amounts of investment reported by the smaller organizations are largely estimates. Many changes in ownership, organization, and method of computing the valuation have influenced the accuracy of the figures for capital investment.

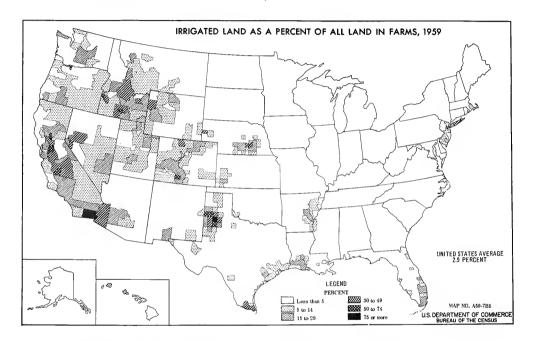
Farms by extent of irrigated crops.—For tabulation purposes, farms in the 18 States were classified into four groups: (1) Farms with all crops irrigated, (2) farms with part of the crops irrigated, (3) farms with land irrigated and no crops harvested from irrigated land, and (4) farms with no irrigated land. The summary for these four groups of farms for the 18 States for 1959 follows:

Item	All farms	Farms with all crops harvested, irrigated	Farms with part of crops harvested, irrigated	Farms with irrigated land, but no crops harvested from irri- gated land	Farms with no irri- gated land
Number of farms	1,044,166	178, 029	64, 404	24, 998	776, 735
Land in farms_acres	714, 860, 571	105, 108, 816	92, 395, 396	15, 826, 185	501, 530, 174
Land irrigatedacres	31, 222, 967	22, 142, 351	8, 133, 410	947, 206	
Cropland harvested.	01,000,000	55, 115, 001	011001110	011,200	
totalacres	144 414 833	18, 747, 587	19, 089, 304	644, 946	105, 932, 996
Irrigatedacres	26, 198, 581	18, 747, 587	7, 450, 994	044, 540	100, 502, 550
		10, 121, 001		044.040	305 000 000
Not irrigated_acres	118, 216, 252		11, 638, 310	644, 946	105, 932, 996
Land other than crop-					
land harvested					
irrigatedacres	5, 024, 386	3, 394, 764	682, 416	947, 206	

Of the 1,044,166 farms in the 18 States, only 267,431 reported land irrigated in 1959 and only 31.2 million acres were irrigated of the 715 million acres of land in farms in these States. Irrigated farms in these States contained over 213 million acres of land. In 1959, crops were harvested from 26.2 million acres of the 31.2 million acres irrigated. The 5 million acres of irrigated land from which no crops were harvested were largely irrigated pastureland, although a part of the acreage was irrigated land in cultivated summer fallow.

In the 18 States there were 144.4 million acres of land from which crops were harvested but only 26.2 million acres, or 18

percent, were irrigated in 1959. Approximately 68 percent (26.2 million acres) of the 38.5 million acres of land from which crops were harvested on farms with irrigation were irrigated in 1959. There were 178,029 farms on which all crops harvested were irrigated. Those farms had 71 percent of all irrigated land and 72 percent of the irrigated land from which crops were harvested. There were 24,998 farms with no crops harvested from irrigated land in 1959. These farms had 947,206 acres of irrigated land and nearly 645,000 acres of land from which crops were harvested. A large part of the irrigated land on these 24,998 farms was used for pasture.



In order to facilitate the tabulation of census data on crops, farm operators were asked to indicate which crops on their farms were entirely irrigated in 1959 and to report the acreage irrigated for those crops which had only a part of the harvested acreage irrigated in 1959.

There were approximately 26.2 million acres of crops harvested from irrigated land in the 18 States. Only data for the acreage harvested are available for the crops for which only part of the acreage harvested was irrigated, since farm operators were not asked to report separately the quantity harvested from the irrigated land if only a part of the acreage for a crop was irrigated.

The data in summary table 4 for crops harvested on irrigated farms relate only to the crops for which the entire area harvested was irrigated. The entire acreage harvested and the production were included in the totals for nonirrigated crops when only part of the acreage of the crop on a farm was irrigated. The figures for nonirrigated crops include about 2.9 million acres of irrigated crops for 1959 and more than 2.0 million acres of irrigated crops for 1954. This procedure should be kept in mind if the figures are to be used in making comparisons of relative yields for irrigated and nonirrigated crops. Since the acreage irrigated is not available for those crops for which only a part of the acreage

harvested was irrigated in 1954, the data in summary table 4 cannot be used to measure the change from 1954 to 1959 in the irrigated acreage of each crop harvested. Summary table 3 presents the total acres irrigated for each crop in 1959 and also the acreages irrigated for those crops for which only a part of the acreage was irrigated in 1959. Six crops—sorghums (755,000 acres), cotton (725,000 acres), hay (483,000 acres), wheat (432,000 acres), cotton (446,000 acres), and barley (92,000 acres)—accounted for a total of 98 percent of the 3,000,000 acres of irrigated crops harvested on farms on which only a part of the acreage of such crops was irrigated in 1959. These were the only crops for which as much as 3 percent of the total acreage of the irrigated crop was reported on farms on which only a part of the crop was irrigated.

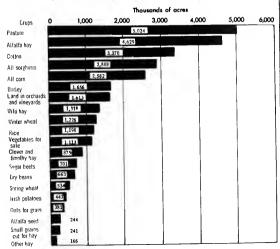
Importance of crop production on irrigated land.—In order to indicate the importance of the production of each crop harvested on irrigated land, estimates have been made for the production on the irrigated part for each crop irrigated, when only part of the acreage of the crop was irrigated. These estimates represent approximations as the estimates have been made by assuming that the yield per acre for the acreage irrigated for crops for which only part of the acreage was irrigated was the same as for the acreage for which the entire acreage was irrigated. These estimates have been made only for the 18 States as a group.

ESTIMATED PRODUCTION OF PRINCIPAL CROPS HARVESTED FROM IRRIGATED LAND FOR 18 SPECIFIED STATES: 1959

	Estimated irrigate	i total produ d land in 18 :	etion on States		
Сгор	Total	Percent of total for 18 States	Percent of total for conter- minous United States	Reported production on irrigated land where all of crop was irrigated	Estimated production on irrigated land where part of crop was irrigated
FIELD CROPS Corn harvested for grain hushels. Sorghums harvested for grain bushels.	150, 415, 229 172, 646, 780	27. 9 36. 4	4. 1 34. 0	98, 228, 621 124, 396, 146	52, 186, 608 48, 250, 634
Small grains harvested, total acres All wheat bushels Winter wheat bushels Spring wheat bushels Oas- bushels Percentary bushels Bey hushels F Jassed bushels Rice bushels Other grains acres	5, 251, 160 69, 166, 629 41, 979, 119 25, 451, 952 18, 072, 472 84, 649, 138 354, 306 1, 392, 599 89, 791, 855 202, 372	8. 1 8. 7 6. 7 15. 2 9. 2 25. 3 2. 8 9. 5 100. 0 22. 3	5. 4 6. 6 4. 8 13. 4 1. 8 21. 3 1. 6 7. 1 74. 3 17. 4	4, 703, 047 52, 182, 584 28, 394, 776 23, 787, 808 17, 264, 207 79, 952, 435 333, 790 1, 387, 544 89, 791, 855 196, 386	548, 113 16, 984, 045 13, 584, 343 1, 664, 144 808, 265 4, 696, 703 20, 516 5, 055
Soybeans harvested for beansbushels. Cowpeas harvested for peasbushels. Dry field and seed beans harvested for beans100-lh. hags. Dry field and seed peas harvested for peasbushels.	1, 407, 958 102, 825 11, 631, 511 1, 546, 990	6. 1 14. 6 95. 7 18. 9	0.3 7.0 60.9 18.6	1, 324, 568 91, 132 11, 487, 993 1, 530, 259	83, 390 11, 693 143, 518 16, 731
Hay: Alfalfa and alfalfa mixtures cut for hay	16, 101, 913 1, 312, 367 1, 085 7, 400 424, 104 1, 311, 603 257, 585 373, 465	60. 6 52. 9 0. 5 13. 8 18. 8 17. 0 10. 7 29. 3	26.9 5.9 (Z) 13.8 11.6 15.2 4.2 46.9	15, 103, 044 1, 231, 371 1, 085 6, 367 402, 247 1, 203, 257 229, 561 331, 297	998, 869 80, 996 1, 033 21, 857 108, 346 28, 024 42, 168
Alfalfa seed barvested bushels. Red clover seed barvested bushels. Sweetclover seed harvested bushels	1, 264, 816 218, 447 14, 572	72. 0 66. 4 6. 2	69. 8 14. 8 3. 8	1, 254, 359 218, 000 14, 514	10, 457 447 58
Cotton harvested hales Irish potatoes harvested bushels Sweetpotatoes harvested hushels Sugar beets harvested totons Hops harvested pounds Popcorn harvested 1,000 lh. ear corn	5, 303, 255 163, 701, 963 2, 112, 923 13, 821, 730 54, 032, 675 9, 551	68. 0 86. 8 21. 0 97. 2 99. 0 29. 1	38. 1 43. 8 7. 2 82. 2 99. 0 3. 9	4, 589, 108 162, 477, 070 2, 056, 912 13, 796, 573 53, 527, 469 8, 299	714, 147 1, 224, 893 56, 011 25, 157 505, 206 1, 252
BERRIES AND SMALL FRUITS Berles and other small fruits barvested for sale, total acres. Strawberries quarts. Blackberrles and dewberries quarts. Boysen berries quarts. Raspberries quarts. Cranberries barrets. Blueberries acres. Blueberries quarts. other berries acres.	33, 618 148, 044, 034 8, 938, 360 10, 325, 023 6, 368, 156 154, 301 952, 342 509	78. 2 43. 4	17. 5 53. 0 40. 3 70. 4 19. 1 1 13. 0 2. 9 13. 3	32, 213 141, 303, 547 8, 597, 110 10, 136, 177 6, 038, 887 154, 301 903, 508	

Z Less than 0.05 percent.

IRRIGATED ACREAGE OF SPECIFIED CROPS AND PASTURE IN THE 17 WESTERN STATES AND LOUISIANA: 1959



The making of estimates using the same procedure by counties or by States would provide different totals. The estimated production for the irrigated acreage where only part of the acreage was irrigated represents 6 percent or more of the total production for only seven crops, sorghums (28 percent), corn (35 percent), hay (6 percent), wheat (25 percent), cotton (13 percent), popcorn (13 percent), and cowpeas for peas (11 percent).

No data are available regarding the production of tree fruits, nuts, and grapes on irrigated land. However, the irrigated acreage of tree fruits, nuts, and grapes represents almost 80 percent of the total acreage in the 18 States and almost 40 percent of the total acreage in the 48 States. The value of the fruit, nut, and grape crops in the 18 States was \$708 million in 1959. A large part of this value was for crops harvested from irrigated land. The value of the tree fruit, nut, and grape crops in the 18 States comprised 55 percent of the value of these crops in the 48 conterminous States. Thus, at least half of the tree fruit, nut, and grape crops in the 48 conterminous States were produced in 1959 on irrigated land in the 18 States.

Data are not available for the production on irrigated land of vegetables harvested for sale. The following table summarizes the acreages of vegetables grown for sale on irrigated land in the 18 States as well as the total acreages of vegetables harvested for sale in the 18 States and in the 48 conterminous States.

			Acreage for	18 States	
Item	Total acreage 48 States	Total	Irrigated total	acreage as a percent of total for	Irrigated acreage as a percent of total for 18 States
All vegetable crops Asparagus Green snap beans Cabbage	162, 914	1, 439, 729 100, 581 36, 196 38, 851	1, 113, 305 98, 993 29, 576 32, 719	31.9 60.8 12.1 29.4	77.3 98.4 81.7 84.2
Cantaloups and musk- meions	617, 362 200, 577 101, 569	97, 513 93, 597 181, 144 71, 692 146, 445	90, 015 78, 093 179, 937 58, 935 24, 569	67.3 12.6 89.7 58.0 7.4	92.8 83.4 99.8 82.2
Green peas. Tomatoes All other	445, 133 1, 077, 301	218, 471 455, 239	210, 698 309, 770	47.3 28.8	96.4 68.0
Value of vegetables bar- vested for sale	Dollars 736, 244, 138	Dollars 370, 033, 730	NA	NA	NA

NA Not available

Relation of water used for irrigation and other purposes.—Data on quantity of water used for irrigation purposes are available only for water delivered to farms by irrigation organizations. Irrigation organizations provided water for the irrigation of 12.9 out of the 31.2 million acres irrigated in 1959. Irrigation organizations delivered 54.5 million acre-feet of water to farm irrigation water users. However, 9.8 million acre-feet of water was delivered to farms where water from other sources was also used for irrigation purposes. The average amount of water delivered to farms per acre irrigated, for those irrigation organizations reporting the quantity of water delivered and the acres irrigated for farms receiving water for irrigation purposes from irrigation organizations only, was 3.2 acre-feet per acre irrigated for the 18

States. The acre-feet per acre irrigated reported for their irrigation organizations varied from 1.2 to 4.8 acre-feet per acre in the 18 States. If it is assumed that the average acre-feet used per acre irrigated reported by these irrigation organizations indicate the approximate use of water per acre irrigated for land irrigated for each of the 18 States, then the total quantity of water used for irrigation purposes in the 18 States would be approximately 92 million acre feet in 1959. The conveyance loss of water as reported by irrigation organizations totaled 15.8 million acre-feet. The conveyance loss does not include losses from evaporation and other causes in reservoirs. The area of the principal reservoirs and regulated lakes in the 17 States is 3.446,000 acres and the estimated annual evaporation from these reservoirs and lakes is 12,299,000 acre-feet (Evaporation from the 17 Western States. Geological Survey Professional Paper 272-D, Geological Survey, U.S. Department of the Interior). Thus, the total water withdrawn for irrigation uses in the 18 States was approximately 120 million acre-feet in 1959. The 1958 Census of Manufacturers reported the withdrawal of 2,978 billion gallons or 9 million acre-feet of water in 1959 in the 18 States. However, 92 percent of the water withdrawn by industry was discharged into the stream, etc., and therefore may have been available for reuse.

In the 18 irrigation States, water withdrawn for the use of livestock and poultry and for public use is a small percent of withdrawals for all purposes. A large part of the water withdrawn for industrial use is returned to streams and may be reused but the water delivered to farms for irrigation purposes is not available for reuse because of transpiration and evaporation. Water used for irrigation may have amounted to as much as nine-tenths of the total water consumed in the 18 States.

SUMMARY TABLES

(1)

Summary Table 1.—IRRIGATED FARMS—NUMBER AND ACREAGE IRRIGATED BY DIVISIONS AND STATES: CENSUSES OF 1959, 1954, AND 1950

			Number of	firrigate	d farm	9					A11 :	irrigate	i land ir	farms	_			
	Region, division, end State					ent of farms	all		Acres			nt of all	l land		age per i	arm	Increa decrea 1954-	se (-),
		1959	19541	1950	1959	1954	1950	1959	19541	1949	1959	1954	1949	1959	1954	1949	Acres	Percent
1 2 3 4 5 6	U. S	NA 306,532 36,273 63,011 NA 207,248	NA 320,236 27,648 57,185 NA 235,403	NA 305,061 18,348 39,087 NA 247,626	NA 8.3 2.1 3.8 NA 60.5	NA 6.7 1.4 2.5 NA 55.7	NA 5.7 0.8 1.5 NA 53.6	NA 33,021,799 3,356,861 7,783,403 NA 21,881,535	NA 29,552,155 1,925,423 7,102,185 NA 20,524,547	NA 25,787,455 1,258,321 4,552,481 NA 19,976,653	NA 2.9 0.8 2.2 NA 6.4	NA 2.6 0.4 1.8 NA 6.1	NA 2.2 0.3 1.2 NA 6.2	NA 107.7 92.5 123.5 NA 105.6	NA 92.3 69.6 124.2 NA 87.2	NA 84.5 68.6 116.5 NA 80.7	NA 3,469,644 1,431,438 681,218 NA 1,356,988	NA 11.7 74.3 9.6 NA 6.6
7 8 9 10 11 12 13 14 15 16	Geographic Divisions: New England Viddle Atlantic Fast North Central West North Central South Valantic, Fast South Central Nost South Central Mountain Pacific Conterminous area	1,618 4,430 3,934 26,291 18,924 3,253 40,834 96,094 NA 111,154	2,017 4,333 3,509 17,789 11,660 4,475 41,050 112,231 NA 123,172	1,581 2,208 2,110 12,449 6,516 180 32,391 122,280 NA 125,346	2.8 2.2 0.6 3.3 3.2 0.6 8.3 64.5 NA 57.5	2.5 1.7 0.4 2.0 1.4 0.6 6.1 62.3 NA 50.8	1.5 0.7 0.2 1.3 0.7 (Z) 4.2 62.8 NA 47.0	30,651 148,393 111,376 3,066,441 596,844 136,627 7,049,932 12,094,712 NA 9,786,823	38,395 135,886 75,578 1,675,564 536,195 185,130 6,380,860 11,207,997 NA 9,316,550	31,450 54,616 36,227 1,136,018 381,044 6,950 4,164,487 11,642,484 NA 8,334,169	0.3 0.6 0.1 1.1 0.7 0.2 3.4 4.6 NA 12.7	0.3 0.5 0.1 0.6 0.5 0.2 3.0 4.3 NA 12.2	0.3 0.2 (Z) 0.4 (Z) 2.0 4.7 NA	18.9 33.5 28.3 116.6 31.5 42.0 172.6 125.9 NA 88.0	19.0 31.4 21.5 94.2 46.0 41.4 155.4 99.9 NA 75.6	19.9 24.7 17.2 91.3 58.5 38.6 128.6 95.2 NA 66.5	-7,744 12,507 35,798 1,390,877 60,649 -48,503 669,072 886,715 NA 470,273	-20.2 9.2 47.4 83.0 11.3 -26.1 10.5 7.9 NA 5.0
17 18 19 20 21 22	New England: Maine New Hampshire Vermont Massachusetts Phode Island Connecticut	138 76 72 1,093 34 205	87 61 55 1,366 43 405	123 51 22 1,053 52 280	0.8 1.2 0.6 9.8 2.4 2.5	0.4 0.6 0.3 7.9 2.1 3.2	0.4 0.4 0.1 4.7 2.0 1.8	2,214 1,249 1,612 19,999 406 5,171	1,097 942 689 22,683 1,009 11,975	2,299 622 303 18,507 1,631 8,088	0.1 0.1 0.1 1.8 0.3 0.6	(Z) 0.1 (Z) 1.6 0.7	0.1 (2) (2) 1.1 0.9 0.6	16.0 16.4 22.4 18.3 11.9 25.2	12.6 15.4 12.5 16.6 23.5 29.6	18.7 12.2 13.8 17.6 31.4 28.9	1,117 307 923 -2,684 -603 -6,804	101.8 32.6 134.0 -11.8 -59.8 -56.8
23 24 25	Middle Atlantic: New York New Jersey Pennsylvania	1,741 1,902 787	1,675 1,775 883	888 1,033 287	2.1 12.3 0.8	1.6 7.8 0.7	0.7 4.2 0.2	57,997 73,873 16,523	59,024 58,912 17,950	19,248 28,117 7,251	0.4 5.4 0.1	0.4 3.5 0.1	0.1 1.6 0.1	33.3 38.8 21.0	35.2 33.2 20.3	21.7 27.2 25.3	-1,027 14,961 -1,427	-1.7 25.4 -7.9
26 27 28 29 30	East North Central: Ohio Indiana Illinois Michigan Wisconsin	575 480 332 1,909 638	847 443 266 1,408 545	458 164 139 99 5 354	0.4 0.4 0.2 1.7	0.5 0.3 0.2 1.0 0.4	0.2 0.1 0.1 0.6 0.2	11,972 17,237 10,127 40,178 31,862	15,379 11,738 6,789 23,473 18,199	5,706 5,339 1,510 13,901 9,781	0.1 0.1 (Z) 0.3 0.2	0.1 0.1 (Z) 0.1 0.1	(Z) (Z) (Z) 0.1 (Z)	20.8 35.9 30.5 21.0 49.9	18.2 26.5 25.5 16.7 33.4	12.5 32.6 10.9 14.0 27.6	-3,407 5,499 3,338 16,705 13,663	-22.2 46.8 49.2 71.2 75.1
31 32 33 34 35 36 37	West North Central: Mianesota Lowa Missouri North Dakota South Dakota Nebraska Kansasa	387 313 590 471 1,002 18,936 4,592	347 132 752 399 923 12,500 2,736	274 76 142 304 807 9,680 1,166	0.3 0.2 0.3 0.9 1.8 20.9 4.4	0.2 0.1 0.4 0.6 1.5 12.4 2.3	0.2 (Z) 0.1 0.5 1.2 9.0 0.9	14,991 18,181 29,957 47,656 115,629 2,077,926 762,101	9,207 2,396 32,998 37,672 90,371 1,171,369 331,551	4,235 1,386 2,089 35,294 78,069 876,259 138,686	(2) 0.1 0.1 0.1 0.3 4.4 1.5	(Z) (Z) 0.1 0.1 0.2 2.5	(Z) (Z) (Z) 0.1 0.2 1.8	38.7 58.1 50.8 101.2 115.4 109.7 166.0	26.5 18.2 43.9 94.4 97.9 93.7 121.2	15.5 18.2 14.7 116.1 96.7 90.5 118.9	5,784 15,785 -3,041 9,984 25,258 906,557 430,550	62.8 658.8 -9.2 26.5 27.9 77.4
38 39 40 41 42 43 44 45	South Atlantic: Delaware Maryland District of Columbia Virginia Wesst Virginia North Carolina South Carolina Georgia, Florida	156 328 NA 1,996 66 8,537 1,398 2,194 4,249	81 235 NA 763 62 2,704 748 1,268 5,799	10 30 2 71 9 96 84 139 6,075	3.0 1.3 NA 2.0 0.1 4.5 1.8 2.1 9.4	1.3 0.7 NA 0.6 0.1 1.0 0.6 0.8 10.1	0.1 0.1 7.1 (Z) (Z) (Z) (Z) 0.1 0.1	15,533 11,174 NA 31,101 1,115 65,743 24,952 33,700 413,526	5,553 8,344 NA 21,805 1,381 25,423 22,009 23,873 427,807	404 697 13 2,817 40 2,083 6,408 3,161 365,421	2.0 0.3 NA 0.2 (Z) 0.4 0.3 0.2 2.7	0.7 0.2 NA 0.1 (Z) 0.1 0.2 0.1	(Z) (Z) 1.0 (Z) (Z) (Z) 0.1 (Z)	99.6 34.1 NA 15.6 16.9 7.7 17.8 15.4 97.3	68.6 35.5 NA 28.6 22.3 9.4 29.4 18.8 73.8	40.4 23.2 6.5 39.7 4.4 21.7 76.3 22.7 60.2	9,980 2,830 NA 9,296 -266 40,320 2,943 9,827 -14,281	179.7 33.9 NA 42.6 -19.3 158.6 13.4 41.2 -3.3
47 48 49 50	East South Central: Kentucky Tennessee Alabama Mississippi	1,130 1,005 328 790	1,226 1,094 452 1,703	67 35 34 44	0.7 0.6 0.3 0.6	0.6 0.5 0.3 0.8	(Z) (Z) (Z) (Z)	8,605 10,979 17,357 99,686	13,434 22,548 16,658 132,490	485 1,012 367 5,086	0.1 0.1 0.1 0.5	0.1 0.1 0.1 0.6	(2) (2) (2) (2)	7.6 10.9 52.9 126.2	11.0 20.6 36.9 77.8	7.2 28.9 10.8 115.6	-4,829 -11,569 699 -32,804	-35.9 -51.3 4.2 -24.8
51 52 53 54	West South Central: Arkansas Louisiana Oklahoma Texas	5,652 4,817 2,481 27,884	6,218 6,897 1,620 26,315	3,060 7,438 466 21,427	5.9 6.5 2.6 12.3	4.3 6.2 1.4 9.0	1.7 6.0 0.3 6.5	711,812 484,850 197,632 5,655,638	857,863 707,818 108,151 4,707,028	422,107 576,775 34,071 3,131,534	4.3 4.7 0.6 3.9	4.8 6.2 0.3 3.2	2.2 5.1 0.1 2.2	125.9 100.7 79.7 202.8	138.0 102.6 66.8 178.9	137.9 77.5 73.1 146.1	-146,051 -222,968 89,481 948,610	-17.0 -31.5 82.7 20.2
55 56 57 58 59 60 61 62	Mountain: Montana Idaho . Wyoming Colorado . New Mexico . Arizona . Utah .	11,935 25,383 6,412 20,312 8,850 5,391 15,701 2,110	13,114 28,218 7,130 23,355 11,690 6,809 19,406 2,509	13,457 29,413 7,831 27,121 12,691 7,822 21,126 2,819	41.2 75.4 65.8 60.8 55.6 74.5 88.2 89.6	39.7 72.8 62.5 57.3 55.5 73.1 85.0 87.8	38.4 73.0 62.1 59.5 53.8 75.1 87.4 90.6	1,874,520 2,576,580 1,469,911 2,684,757 731,835 1,152,450 1,061,683 542,976	1,890,671 2,324,571 1,262,632 2,262,921 649,615 1,177,407 1,072,682 567,498	1,716,792 2,137,237 1,431,767 2,872,348 655,287 963,560 1,137,995 727,498	2.9 16.9 4.1 6.9 1.6 2.9 8.4 5.0	3.1 16.2 3.6 5.9 1.3 2.8 8.7 6.9	2.9 16.2 4.2 7.6 1.4 2.4 10.5 10.3	157.1 101.5 229.2 132.2 82.7 213.8 67.6 257.3	144.2 82.4 177.1 96.9 55.6 172.9 55.3 226.2	127.6 72.7 182.8 105.9 51.6 123.2 53.9 258.1	-16,151 252,009 207,279 421,836 82,220 -24,957 -10,999 -24,522	-0.9 10.8 16.4 18.6 12.7 -2.1 -1.0 -4.3
63 64 65 66 67	Pacific: Washington Orogon California Alaska Hawaii	19,292 17,724 74,138 NA 1,251	18,844 19,826 84,502 NA NA	16,928 17,663 90,755 NA 1,158	37.4 41.6 74.7 NA 20.0	28.9 36.4 68.7 NA NA	24.2 29.5 66.2 NA 20.1	1,006,969 1,384,284 7,395,570 NA 141,179	778,135 1,490,366 7,048,049 NA NA	589,035 1,306,810 6,438,324 NA 117,418	5.4 6.5 20.0 NA 5.7	4.4 7.1 18.6 NA NA	3.4 6.4 17.6 NA 4.8	52.2 78.1 99.8 NA 112.9	41.3 75.2 83.4 NA NA	34.8 74.0 70.9 NA 101.4	228,834 -106,082 347,521 NA NA	29.4 -7.1 4.9 NA NA

NA Not available. Z Less than 0.05 percent. Data for 1954, for 17 Western States and Florida do not include irrigated cropland not barvested and not pastured; those for Arkansas, Louisiams, and Southeastern Missouri do not include either irrigated pasture or irrigated cropland not harvested and not pastured. See text.

Summary Table 2.-IRRIGATED FARMS-ALL LAND AND IRRIGATED LAND CLASSIFIED ACCORDING TO USE: CENSUSES OF 1959 AND 1954

						-							1	
	Numbe irrigate	er of ed farms ¹	All 1	and in irrigat (acres)	ed farms			Crople	und harvested		Cropland us pasture	ed only for , 1959	Cropland no and not pas	t harvested tured, 1959
State			To	tal	Average	per farm	Farms re	porting	Acı	res				
20200	1959	1954	1959	1954	1959	1954	1959	1954	1959	1954	Farms reporting	Acres	Farms reporting	Acres
All irrigated farms: 18 States, total.	267,431	286,793	213,330,397	190,795,348	797.7	665.3	248,517	265,651	38,481,837	32,662,167	90,658	9,022,909	77,385	9,369,652
Hawaii*	1,251	NA.	958,898	NA	766.5	NA	1,217	NA.	109,101	NA.	148	70,052	397	94,354
Louisiana	4,817	6,897	1,766,593	1,896,951	366.7	275.0	4,811	6,897	597,205	824,309	2,950	602,221	849	49,042
17 Western States, total	262,614	279,896	211,563,804	188,898,397	805.6	674.9	243,706	258,754	37,884,632	31,837,858	87,708	8,420,688	76,536	9,320,610
Arizona	5,391	6,809	20,261,106	21,025,139	3,758.3	3,087.8	4,736	5,931	1,011,791	1,072,523	1,724	164,954	1,751	347,099
California	74,138	84,502	24,029,765	22,967,240	324.1	271.8	65,980	75,324	7,260,791	7,167,153	15,343	2,140,615	13,778	1,343,132
Colorado	20,312	23,355	18,687,592	16,592,897	920.0	710.5	19,340	22,152	2,645,655	2,193,936	7,136	798,504	6,175	747,844
Idaho	25,383	28,218	9,591,651	8,683,254	377.9	307.7	22,832	25,531	2,575,957	2,350,424	14,088	571,185	4,885	536,144
Kansas	4,592	2,736	4,818,612	2,681,618	1,049.3	980.1	4,580	2,721	2,085,855	1,058,550	1,436	128,902	3,525	992,998
Montana	11,935	13,114	25,444,553	23,815,699	2,131.9	1,816.1	11,422	12,601	2,428,840	2,346,648	4,235	606,068	4,828	894,912
Nebraska	18,936	12,500	10,519,045	6,543,570	555.5	523.5	18,854	12,443	4,439,591	2,529,287	5,220	285,872	8,661	639,019
Nevada	2,110	2,509	8,945,608	7,483,187	4,239.6	2,982.5	1,894	2,227	326,956	356,380	1,005	337,058	477	81,874
New Mexico	8,850	11,690	12,225,180	11,912,319	1,381.4	1,019.0	8,493	11,372	711,851	669,684	2,758	169,514	2,917	249,694
North Dakota	471	399	688,180	389,449	1,461.1	976.1	468	396	162,225	123,749	116	14,834	315	57,911
Oklahoma	2,481	1,620	1,744,647	952,253	703.2	587.8	2,463	1,607	589,738	358,942	1,209	95,961	1,650	246,855
Oregon	17,724	19,826	13,733,452	13,090,186	774.9	660.3	15,567	17,306	1,596,390	1,608,013	9,265	571,222	4,586	487,921
South Dakota	1,002	923	2,243,966	1,851,308	2,239.5	2,005.8	990	917	241,582	227,131	386	43,468	372	45,468
Texas	27,884	26,315	24,116,410	19,371,430	864.9	736.1	27,394	25,789	8,347,683	6,626,599	8,230	1,390,515	12,181	1,666,706
Utah	15,701	19,406	8,891,138	9,928,400	566.3	511.6	14,713	18,398	935,024	1,035,477	6,092	344,475	4,787	338,287
Washington	19,292	18,844	6,216,373	5,013,494	322.2	266.1	17,903	17,329	1,331,151	1,036,169	6,857	319,021	4,413	510,683
Wyoming	6,412	7,130	19,406,526	16,596,754	3,026.6	2,327.7	6,077	6,710	1,193,552	1,077,193	2,608	438,520	1,235	134,063
Farms with all harvest-										1				
ed crops irrigated: 18 States, total.	178.029	200,892	105,108,816	95,664,848	590.4	476.2	178,029	200,892	18,747,587	17,379,324	53,188	4,558,410	40,595	2,920,663
Hawaii*	1,081	NA.	324,087	NA.	299.8	NA.	1,081	NA.	34,408	NA.	108	61,963	316	30,063
Louisiana	2,669	4,215	663,762	1,042,781	248.7	247.4	2,669	4,215	256,312	511,640	1,485	263,082	428	17,450
17 Western States, totai	175,360	196,677	104,445,054	94,622,067	595.6	481.1	175,360	196,677	18,491,275	16,867,684	51,703	4,295,328	40,167	2,903,213
Arizona	4,614	5,822	7,919,362	7,739,135	1,716.4	1,329,3	4,614	5,822	984,884	1.057.865	1,183	123,999	1,644	321,687
California	58,505	65,164	12,904,149	11,776,534	220.6	180.7	58,505	65,164	5,361,401	4,931,465	8,515	959,295	10,719	764,544
Colorado	15,988	17,975	12,474,206	10,551,257	780.2	587.0	15,988	17,975	1,768,165	1,456,655	5,540	547,622	3,970	205,780
Idaho	19,651	21,616	5,716,940	5,171,686	290.9	239.3	19,651	21,616	1,799,481	1,588,161	11,264	373,701	2,857	132,770
Kansas	542	447	249,028	208,404	459.5	466.2	542	447	130,285	67,895	107	5,832	305	38,675
Montana	6,618	7,602	10,607,464	10,276,046	1,602.8	1,351.8	6,618	7,602	964,137	969,393	2,511	315,409	1,604	102,065
Nebraska	3,327	3,129	954,634	825,037	286.9	263.7	3,327	3,129	451,929	359,369	619	31,720	664	28,222
Nevada	1,786	2,154	6,408,657	6,475,593	3,588.3	3,006.3	1,786	2,154	278,727	334,797	824	272,376	417	70,941
New Mexico	7,713	10,488	8,032,934	6,530,875	1,041,5	622.7	7,713	10,488	548,346	518,953	2,261	134,054	2,491	176.517
North Dakota	139	150	40,603	35,037	292.1	233.6	139	150	18,338	17,118	38	952	47	3,128
Oklahoma	290	211	160,448	103,172	553.3	489.0	290	211	20,200	13,513	88	5,769	137	32,821
Oregon	9,477	10,748	6,067,640	5,655,879	640.2	526.2	9,477	10,748	691,255	690,001	4,532	271,017	2,002	96,864
South Dakota	358	296	361,506	246,968	1,009.8	834.4	358	296	43,989	28,457	146	11,329	109	7,429
Texas	14,507	15,943	8,984,114	9,682,605	619.3	607.3	14,507	15,943	3,149,427	2,871,227	3,191	523,953	6,027	623,958
Utah	12,507	15,386	6,453,264	6,212,379	516.0	403.8	12,507	15,386	664,783	661,420	4,656	258,719	3,523	156,504
Washington	14,317	14,184	2,576,581	1,926,547	180.0	135.8	14,317	14,184	690,324	504,959	4,154	137,555	2,889	92,093
Wyoming	5,021	5,362	14,533,524	11,204,913	2,894,5	2,089.7	5,023	5,362	925,604	796,436	2,074	322,026	762	49,215
	-,	-,-52	2.,,,,,,,,	,			-,	1 -7-52	1,504	1		,		

NA Not swallable.

1Data for 1959 are for farms reporting any land irrigated in 1959. Data for 1954 are for farms reporting irrigated cropland harvested and/or pasture, except for Arkansas, Louisians, and Southeastern Missouri where irrigated pasture was not included on the questionnaire.

* Not included in 18 States total.

Summary Table 2.-IRRIGATED FARMS-ALL LAND AND IRRIGATED LAND CLASSIFIED ACCORDING TO USE: CENSUSES OF 1959 AND 1954-Continued

			Oth		t cropland and d), 1959	not		Croplar (acr	nd, total	W	oodland, tot	al
State	Woodland pastured,	Woodland not pastured,	To	tal	Improv	ed	Other land (house lots, roads, waste-				Acr	es
State	1959 (acres)	1959 (acres)	Farms reporting	Acres	Farms reporting	Acres	land, etc.), 1959 (acres)	1959	1954	Farms reporting, 1959	1959	1954
All irrigated farms: 18 States, total.	15,080,172	1,674,090	104,325	129,524,525	36,289	4,187,490	10,177,212	56,874,398	46,768,160	27,591	16,754,262	16,893,482
Hawaii*	20,245	136,412	101	381,200	38	43,457	147,534	273,507	NA	120	156,657	NA NA
Louisiana	154,435	96,877	954	191,363	256	38,254	75,450	1,248,468	1,401,097	1,500	251,312	316,444
17 Western States, total	14,925,737	1,577,213	103,371	129,333,162	36,033	4,149,236	10,101,762	55,625,930	45,367,063	26,091	16,502,950	16,577,038
Arizona	3,560,770	61,404	1,298	12,510,461	324	185,538	2,604,627	1,523,844	1,521,153	143	3,622,174	3,741,998
California	1,969,007	430,806	12,956	9,574,934	7,517	707,978	1,310,480	10,744,538	10,399,616	4,155	2,399,813	2,576,008
Colorado	1,234,287	106,480	10,054	12,416,301	3,279	394,306	738,521	4,192,003	3,625,832	2,111	1,340,767	1,331,008
Idaho	481,626	41,895	11,295	4,639,027	5,675	332,651	745,817	3,683,286	3,278,844	1,155	523,521	384,365
Kansas	9,555	11,044	3,066	1,473,133	320	59,568	117,125	3,207,755	1,636,896	541	20,599	17,046
Montana	1,367,199	131,409	9,256	18,639,531	3,623	367,290	1,376,594	3,929,820	3,472,801	2,466	1,498,608	1,102,952
Nebraska	56,010	25,244	12,740	4,724,046	1,444	114,815	349,263	5,364,482	3,024,551	2,014	81,254	46,246
Nevada	27,177	15,747	1,233	7,708,923	545	223,886	447,873	745,888	642,121	99	42,924	56,702
New Mexico	1,587,903	103,201	3,213	9,022,303	479	114,016	380,714	1,131,059	1,054,015	784	1,691,104	1,503,640
North Dakota	10,759	2,521	338	417,922	56	6,009	22,008	234,970	162,761	111	13,280	9,518
Oklahoma	58,146	12,638	1,696	692,094	244	35,566	49,215	932,554	487,136	492	70,784	79,746
Oregon	2,152,654	313,574	7,220	8,310,474	3,182	282,980	301,217	2,655,533	2,383,356	5,517	2,466,228	2,735,378
South Dakota	34,880	2,493	820	1,839,890	131	13,606	36,185	330,518	277,723	142	37,373	23,618
Texas	909,959	84,044	9,488	11,222,331	1,565	640,348	495,172	11,404,904	8,644,954	1.948	994,003	1,131,253
Utah	503,404	29,192	8,209	6,417,674	2,909	234,586	323,082	1,617,786	1,611,374	755	532,596	843,466
Washington	742,652	197,513	5,701	2,861,601	2,6%	76,570	253,752	2,160,855	1,610,152	3,104	940,165	802,431
Wyoming	219,749	8,008	4,788	16,862,517	2,044	359,523	550,117	1,766,135	1,533,778	514	227,757	191,663
Farms with all harvest- ed crops irrigated:												
18 States, total.	6,275,203	668,206	53,885	66,802,862	20,902	2,131,565	5,136,481	26,226,660	23,606,919	11,822	6,943,409	6,498,617
Hawaii*	14,509	40,024	68	75,399	26	5,112	67,721	126,434	NA.	95	54,533	NA.
Louisiana	24,849	15,555	374	52,989	59	3,640	33,525	536,844	851,250	653	40,404	105,313
17 Western States, total	6,250,354	652,651	53,511	66,749,873	20,843	2,127,925	5,102,956	25,689,816	22,755,669	11,169	6,903,005	6,393,306
Arizona	1,048,075	10,033	995	5,247,540	194	45,606	183,144	1,430,570	1,439,023	109	1,058,108	974,486
California	720,030	185,289	5,852	4,158,068	2,936	308,926	755,522	7,085,240	6,417,983	1,920	905,319	916,117
Colorado	851,634	68,396	7,264	8,518,972	2,442	306,533	514,233	2,521,567	2,214,037	1,596	920,030	910,606
1daho	182,745	12,787	7,941	2,787,152	4,008	196,497	428,304	2,305,952	2,029,184	595	195,532	122,484
Kansas	497	169	156	64,847	25	2,909	8,723	174,792	103,686	16	666	1,218
Montana	690,470	69,741	4,848	7,286,191	2,232	213,160	1,179,451	1,381,611	1,288,956	1,331	760,211	538,676
Nebraska	2,292	1,590	1,527	392,821	266	10,638	46,060	511,871	408,069	134	3,882	3,318
Nevada	19,140	10,898	1,016	5,334,888	4.50	173,252	421,687	622,044	593,652	82	30,038	54,707
New Mexico	864,014	88,534	2,594	6,026,976	374	63,610	194,493	858,917	763,028	591	952,548	368,367
North Dakota	1,706	176	50	13,029	12	119	3,274	22,418	22,145	26	1,882	3,258
Oklahoma	6,566	736	128	91,731	23	2,483	2,625	58,790	24,121	38	7,302	9,706
Oregon	898,869	105,742	3,587	3,849,611	1,513	104,040	154,282	1,059,136	937,862	2,029	1,004,611	1,246,753
South Dakota	2,129	108	291	287,439	50	4,085	9,083	62,747	36,281	35	2,237	1,458
Texas	259,688	18,087	3,755	4,168,137	641	156,091	240,864	4,297,338	3,766,015	569	277,775	384,166
Utah	345,069	17,216	6,296	4,713,472	2,330	178,658	297,501	1,080,006	947,218	556	362,285	548,934
Washington	233,054	58,200	3,590	1,197,842	1,741	45,430	167,513	919,972	665,901	1,213	291,254	208,555
manning contraction												

NA Not available. * Not included in 18 States total.

Summary Table 2.-IRRIGATED FARMS-ALL LAND AND IRRIGATED LAND CLASSIFIED ACCORDING TO USE: CENSUSES OF 1959 AND 1954-Continued

	Land pastur (acre	red, total						Irrigated 1	and 1					
	(acr	:8)	A	ll irrigated l	and				Irrigate	d cropland ha	rveated			
State		****	Acr	28	Average per irr	acres	Farms re	porting	Acr	es	Percent croplan	of total	Average	acrea farm
	1959	1954	1959	1954	fa: 1959		1959	1954	1959	1954	vested a	11 farms	repo 1959	1954
All irrigated farms: 18 States, total.	153,627,606	144,118,764	31,222,967	27,678,507	116.8	96.5	242,418	259,416	26,198,581	23,262,090	18.1	14.9	108.1	89.
Hawaii*	471,497	NA.	141,179	NA	112.9	NA	1,206	NA.	72,703	NA.	41.2	NA.	60.3	N/
Louisiana	948,019	794,904	484,850	707,818	100.7	102.6	4,783	6,897	481,843	707,818	19.9	23.5	100.7	102.€
17 Western States, total	152,679,587	143,323,860	30,738,117	26,970,689	117.0	96.4	237,635	252,519	25,716,738	22,554,272	18.1	14.7	108.2	89.3
Arizona	16,236,185	18,887,766	1,152,450	1,177,407	213.8	172.9	4,678	5,922	991,634	1,064,919	97.3	97.4	212.0	179.8
California	13,684,556	13,040,494	7,395,570	7,048,049	99.8	83.4	64,200	73,250	6,216,950	5,948,068	77.5	71.4	96.8	81.2
Colorado	14,449,092	12,862,827	2,684,757	2,262,921	132.2	96.9	19,166	21,949	2,106,970	1,770,249	35,8	33,9	109.9	80.6
Idaho	5,691,838	5,287,435	2,576,580	2,324,571	101.5	82.4	22,515	25,133	2,064,976	1,854,573	53,9	49.8	91.7	73.8
Kansas	1,611,590	1,041,935	762,101	331,551	166.0	121.2	4,517	2,661	684,146	309,877	3.3	1.4	151.5	116.4
Montana	20,612,798	20,406,529	1,874,520	1,890,671	157.1	144.2	11,189	12,372	1,456,852	1,480,061	17.9	17.6	130.2	119.6
Nehraska	5,065,928	3,457,118	2,077,926	1,171,369	109.7	93.7	18,804	12,378	2,021,858	1,131,344	11.2	6.0	107.5	91.4
Nevada	8,073,158	6,914,221	542,976	567,498	257.3	226.2	1,882	2,221	302,038	348,246	89.5	96.7	160.5	156.8
New Mexico	10,779,720	10,738,527	731,835	649,615	82.7	55.6	8,431	11,330	622,983	592,105	57.8	52.2	73.9	52.2
North Dakota	443,515	216,753	47,656	37,672	101.2	94.4	454	383	44,699	33,845	0.2	0.2	98.5	88.4
Oklahoma	846,201	497,914	197,632	108,151	79.7	66.8	2,405	1,556	181,764	98,929	2.0	1.0	75.6	63.6
Oregon	11,034,350	10,525,455	1,384,284	1,490,366	78.1	75.2	13,926	15,607	967,766	1,006,566	31.0	30.8	69.5	64.5
South Dakota	1,918,238	1,569,101	115,629	90,371	115.4	97.9	972	879	102,302	78,236	0.7	0.4	105.2	89.0
Texas	13,522,805	11,402,629	5,655,638	4,707,028	202.8	178.9	27,096	25,481	5,338,890	4,497,917	24.0	18.1	197.0	176.5
Utah	7,265,553	8,113,824	1,061,683	1,072,682	67.6	55.3	14,561	18,239	771,221	799,885	72.6	65.1	53.0	43.8
Washington	3,923,274	3,267,044	1,006,969	778,135	52.2	41.3	16,800	16,506	792,362	600,219	18.0	13.8	47.2	36.3
Wyoming	17,520,786	15,094,288	1,469,911	1,262,632	229.2	177.1	6,039	6,652	1,049,327	939,233	62.5	60.4	173.8	141.2
Farms with all harvest- ed crops irrigated: 18 States, total.	77,636,475	71,911,248	22,142,351	20,289,488	124.4	101.0	178,029	200,892	18,747,587	17,379,324	13.0	11.1	105.3	86.5
Hawaii*	151,871	NA NA	65,209	NA.	60.3	NA	1,081	NA	34,408	NA.	19.5	NA.	31.8	N/
Louisiana	340,920	405,086	256,660	511,640	96.2	121.4	2,669	4,215	256,312	511,640	10.6	17.0	96.0	121.4
17 Western States, total	77,295,555	71,506,162	21,885,691	19,777,848	124.8	100.6	175,360	196,677	18,491,275	16,867,684	13.0	11.0	105.4	85.8
Arizona	6,419,614	6,117,265	1,080,550	1,110,868	234.2	190.8	4,614	5,822	984,884	1,057,865	96.7	96.7	213.5	181.7
California	5,837,393	5,317,558	6,007,864	5,481,617	102.7	84.1	58,505	65,164	5,361,401	4,931,465	66.8	59.2	91.6	75.7
Colorado	9,918,228	8,269,838	2,245,613	1,856,195	140.4	103.3	15,988	17,975	1,768,165	1,456,655	30.1	27.9	110.6	81.0
Idaho	3,343,598	3,076,286	2,203,704	1,958,780	112.1	90.6	19,651	21,616	1,799,481	1,588,161	47.0	42.6	91.6	73.5
Kansas	71,176	106,722	143,620	71,075	265.0	159.0	542	447	130,285	67,895	0.6	0.3	240.4	151.9
Montana	8,292,070	9,047,346	1,260,149	1,259,013	190.4	165.6	6,618	7,602	964,137	969,393	11.8	11.5	145.7	127.5
Nehraska	426,833	401,761	469,876	379,188	141.2	121.2	3,327	3,129	451,929	359,369	2.5	1.9	135.8	114.9
Nevada	5,626,404	5,947,113	461,494	518,442	258.4	240.7	1,786	2,154	278,727	334,797	82.6	93.0	156.1	155.4
New Mexico	7,025,044	5,743,377	634,542	555,790	82.3	53.0	7,713	10,488	548,346	518,953	50.9	45.7	71.1	49.5
North Dakota	15,687	10,593	19,404	18,293	139.6	122.0	139	150	18,338	17,118	0.1	0.1	131.9	114.1
Oklahoma	104,066	84,230	22,339	14,627	77.0	69.3	290	211	20,200	13,513	0.2	0.1	69.7	64.0
Oregon	5,019,497	4,603,159	912,927	975,623	96.3	90.8	9,477	10,748	691,255	690,001	22.2	21.1	72.9	64.2
South Dakots	300,897	211,282	50,928	33,093	142.3	111.8	358	296	43,989	28,457	0.3	0.2	122.9	96.1
Texas	4,951,778	6,129,591	3,353,984	2,972,101	231.1	186.4	14,507	15,943	3,149,427	2,871,227	14.2	11.5	217.1	180.1
Utah	5,317,260	5,123,714	902,681	883,644	72.2	57.4	12,507	15,386	664,783	661,420	62.6	53.8	53.2	43.0
											1	l		35.6
Washing ton	1,568,451	1,186,890	828,395	624,958	57.9	44.1	14,317	14,184	690,324	504,959	15.6	11.6	48.2	30.0

NA Not available.

1Data for 1959 are for farms reporting may land irrigated in 1959. Data for 1954 are for farms reporting irrigated cropland harvested and/or pasture, except for Arkansas, Louisiana, and Southeastern Missouri where irrigated pasture was not included on the questionnaire.

* Not Included in 18 States total.

Summary Table 2.-IRRIGATED FARMS-ALL LAND AND IRRIGATED LAND CLASSIFIED ACCORDING TO USE: CENSUSES OF 1959 AND 1954-Continued

	Irrigated lan	d1—Continued			Irrige	ited farms b	y total acr	es of cropl	and harvest	ted, 1959		
	Irrigated											
State	1959	1954	1 to 9 acres	10 to 19 acres	20 to 29 acres	30 to 49 acres	50 to 99 acres	100 to 199 acres	200 to 499 acres	500 to 999 acres	1,000 or more acres	No cropland harvested
All irrigated farms: 18 States, total	5,024,386	4,416,417	43,695	25,497	16,127	24,936	39,632	43,643	39,665	11,107	4,215	18,914
Hawaii*	68,476	NA	1,064	86	20	15	1	3	4	2	22	34
Louisiana	3,007	NA.	912	366	307	491	842	942	804	108	39	6
17 Western States, total	5,021,379	4,416,417	42,783	25,131	15,820	24,445	38,790	42,701	38,861	10,999	4,176	18,908
Arizona	160,816	112,488	968	472	290	478	629	672	742	313	172	655
California	1,178,620	1,099,981	20,325	10,435	5,486	7,913	8,398	5,893	4,653	1,796	1,081	8,158
Colorado	577,787	492,672	2,280	1,582	1,093	1,858	3,904	4,969	2,912	560	182	972
Idaho	511,604	469,998	1,786	1,619	1,625	3,037	6,827	5,093	2,280	426	139	2,551
Kenses	77,955	21,674	122	45	38	68	244	689	1,912	1,071	391	12
Montens	417,668	410,610	687	542	481	968	2,278	2,952	2,490	724	300	513
Nebraska	56,068	40,025	186	134	125	312	1,888	7,007	8,173	865	164	82
Nevada	240,938	219,252	215	176	146	233	379	344	278	72	51	216
New Mexico	108,852	57,510	2,783	1,290	629	800	1,075	937	749	187	43	357
North Dakota	2,957	3,827	14	8	7	11	47	121	168	66	26	3
Oklahoma.	15,868	9,222	111	47	39	138	473	694	682	215	64	18
Oregon	416,518	483,800	3,445	1,968	1,421	2,073	2,784	2,024	1,324	363	165	2,157
South Dakota	13,327	12,135	41	20	19	41	140	324	316	68	21	12
Texas	316,748	209,111	1,844	1,401	885	1,288	2,488	5,474	9,282	3,648	1.084	490
Utah	290,462	272,797	2,543	2,111	1,646	2,526	3,320	1,817	632	92	26	988
Washington	214,607	177,916	5,239	3,055	1,656	2,200	2,629	1,781	974	235	134	1,389
Wyoming	420,584	323,399	194	226	234	501	1,287	1,910	1,294	298	133	335
Farms with all harvested							,	,	ŕ			
crops irrigated:	3,394,764	2.910.164	10.051	22,665	10.444	00 633			10.100			
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	.,,	40,254		13,666	20,613	30,900	27,103	17,139	4,124	1,565	•••
Hawaii*	30,801	NA	977	63	14	10	1	2	3	2	9	•••
Louisiana	348	NA	646	199	134	241	511	540	357	38	3	•••
17 Western States, total	,394,416	2,910,164	39,608	22,466	13,532	20,372	30,389	26,563	16,782	4,086	1,562	•••
Arizone	95,666	53,003	916	453	282	467	621	665	736	307	167	
California	646,463	550,152	19,182	9,732	4,943	7,122	7,327	4,859	3,468	1,187	685	•••
Colorado	477,448	399,540	2,187	1,493	988	1,642	3,352	4,064	1,940	249	73	•••
Idaho	404,223	370,619	1,698	1,522	1,532	2,800	6,231	4,185	1,451	185	47	
Kansas	13,335	3,180	97	21	20	19	62	84	162	65	12	•••
Montana	296,012	289,620	629	442	389	740	1,607	1,652	894	168	97	•••
Nebraska	17,947	19,819	162	94	81	162	774	1,442	573	35	4	•••
Nevada	182,767	183,645	206	171	146	220	356	327	258	67	35	•••
New Mexico	86,196	36,837	2,653	1,216	572	737	970	830	593	118	24	
North Dakota	1,066	1,175	8	2	3	5	33	65	22	1		
Oklahoma	2,139	1,114	85	22	12	45	61	42	19	4		•••
Oregon	221,672	285,622	2,716	1,311	878	1,242	1,615	1,028	530	109	48	•••
South Dakota	6,939	4,636	29	14	14	22	80	1,38	60	1		•••
Texas	204.557	100,874	1,691	1,179	680	890	1,493	2,911	4,114	1,299	250	•••
Utah	237,898	222,224	2,420	1,927	1,471	2,201	2,727	1,355	363	34	9	
Washington	138,071	119,999	4,745	2,655	1,311	1,614	1,971	1,353	609	50	9	•••
Wyoming	362,017	268,105	184	212	210	444	1,109	1,563	990	207	102	

MA Not available.

Dath for 1990 eve for farms reporting any land irrigated in 1999. Data for 1994 are for farms reporting irrigated cropland barvested and/or pasture, except for Arkansas, Louistans, and Southeastern Missouri where irrigated pasture was not included on the questionnaire.

* Other Irrigated Land (not cropland harvested).

* Not included in 18 States total.

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Summary Table 3.-FARMS REPORTING AND ACRES OF LAND AND SELECTED CROPS-IRRIGATION FOR 18 STATES: 1959

		F8	rms report:	ing				Acres in far	a or crop		
Item or crop	Total for 18 States	All or part of crops irrigated	All of crop irrigated	Part of erop irrigated	No part of crop irrigated	Total for 18 States	All or part of crop irrigsted	All of crop irrigated	Part of erop irrigsted	No part of crop irrigated	Percent irrigated
All forms. Lend in farms. Irigated farms. Irigated farms. Irrigated land. Cropland harvested Irrigated oropland barvested Lend other than cropland irrigated.	1,044,166 xxx 267,431 xxx xxx 248,517 xxx NA	242,433 xxx 242,433 xxx xxx 242,433 xxx NA	178,029 xxx 178,029 xxx xxx 178,029 xxx NA	64,404 XXX 64,404 XXX XXX 64,404 XXX NA	24,998 xxx 24,998 xxx xxx NA xxx NA	714,860,571 xxx 213,330,397 31,222,967 38,481,837 26,198,581 5,024,386	213,330,397 213,330,397 xxx 197,504,212 30,275,761 37,836,891 NA	105,108,816 xxx 105,108,816 22,142,351 18,747,587 18,747,587 3,394,764	xxx 92,395,396 xxx 92,395,396 8,133,410 19,069,304 7,450,994 682,416	15,826,185 xxx 15,826,185 947,206 644,946 947,206	4.4 4.4 xxx 14.6 xxx 68.1 xxx 2.9
All specified crops harvested, total1	NA.	NA.	NA.	NA NA	NA.	145,919,684	26,640,234	23,560,674	3,079,560	119,279,450	18.3
FIELD CROPS All field crops harvested, total. Corn for all purposes. Sorghums for all purposes including sirup.	NA 331,676 231,755	NA 52,518 27,704	NA 42,441 18,537	NA 10,077 9,167	NA 279,158 204,051	142,385,375 17,226,242 16,675,042	23,880,618 2,582,552 2,887,983	20,884 087 1,857,738 2,132,887	2,996.531 724,814 755,096	118,504,757 14,643,690 13,787,059	16.8 15.0 17.3
Small greins harvested, total. All wheat. Winter wheat. Spring wheat. Garley. Ryc. Flaxneed. Rice. Other greins	NA NA 243,509 NA 207,864 177,213 22,688 34,027 6,806 NA	NA 18,652 NA 20,205 34,393 713 269 6,806 NA	NA NA 14,705 NA 19,539 31,924 676 263 6,806 NA	NA NA 3,947 NA 666 2,469 37 6	NA 224,857 NA 187,659 142,820 21,975 33,758	64,882,038 39,405,930 28,588,544 10,817,386 7,965,568 12,111,391 903,175 2,388,420 1,198,088 909,466	5,251,160 1,760,700 1,226,427 534,273 381,374 1,656,001 14,865 37,760 1,198,088 202,372	4,703,047 1,328,536 829,224 499,312 364,322 1,564,089 14,003 37,623 1,198,088 196,386	548,113 432,164 397,203 34,961 17,052 91,912 862 137 5,986	59,630,878 37,645,230 27,362,117 10,283,113 7,584,194 10,455,390 888,310 2,350,660 707,094	8.1 4.5 4.3 4.9 4.8 13.7 1.6 1.6 100.0 22.3
Soybeans barvested for all purposes	40,825 13,735 16,630	1,413 451 1,248	1,298 428 1,007	115 23 241	39,412 13,284 15,382	1,412,504 193,783 362,107	58,087 12,780 47,166	54,738 11,837 37,658	3,349 943 9,508	1,354,417 181,003 314,941	4.1 6.6 13.0
for beans Dry field and seed peas harvested for peas	15,280 3,620	14,108 1,398	13,996 1,390	112	1,172 2,222	830,537 336,419	663,172 47,906	654,971 47,388	8,201	167,365 288,513	79.8 14.2
Hay cut, total ³ Alfaire and mixtures. Clover, timothy, and mixtures. Lespedeze. Vetch or peas. Oats, wheet, and other small grains. Wild hay. Other hay.	NA 305,372 48,205 9,440 1,803 78,266 140,021 84,010 6,415	NA 101,148 14,497 30 153 10,760 7,350 4,271 1,385	NA 94,047 13,344 30 134 10,298 6,576 3,906 1,193	7,101 1,153 19 462 774 365 192	NA 204,224 33,708 9,410 1,650 67,506 132,671 79,739 5,030	28,193,290 11,956,343 1,699,501 160,110 31,097 2,423,603 9,663,410 2,071,365 187,861	7,279,157 4,629,073 875,279 420 3,526 240,817 1,317,958 165,580 46,504	6,796,002 4,343,682 821,282 420 3,034 228,674 1,209,612 148,065 41,233	483,155 285,391 53,997 492 12,143 108,346 17,515 5,271	20,914,133 7,327,270 824,222 159,690 27,571 2,182,786 8,345,452 1,905,785	25.8 38.7 51.5 0.3 11.3 9.9 13.6 8.0 24.8
Field seeds harvested, total. Alfalfa seed. Red clower seed. Sweetslover seed. Other field seeds.	NA 20,183 7,226 3,794 NA	NA 3,469 2,564 142 NA	NA 3,436 2,557 141 NA	NA 33 7 1 NA	NA 16,714 4,662 3,652 NA	1,584,908 622,730 112,522 67,067 782,589	391,546 244,432 41,972 3,027 102,115	383,775 242,421 41,886 3,015 96,453	7,771 2,011 86 12 5,662	1,193,362 378,298 70,550 64,040 680,474	24.7 39.3 37.3 4.5 13.0
Cotton harvested. Irish polatoes harvested. Sweetpolatoes harvested. Sugar beets harvested. Hops harvested. Popoorn barvested. All other field crops harvested.	136,417 93,377 29,738 18,318 425 1,832 NA	35,163 14,025 933 17,847 408 232 NA	29,991 13,942 902 17,815 403 210 NA	5,172 83 31 32 5 22 NA	101,254 79,352 28,805 471 17 1,600 NA	8,585,554 570,297 91,552 735,280 33,115 20,277 652,430	3,370,007 443,002 12,677 701,142 32,736 5,096 94,449	2,923,665 439,687 12,341 699,865 32,430 4,437 91,621	446,342 3,315 336 1,277 306 659 2,828	5,215,547 127,295 78,875 34,138 379 15,181 557,981	39.3 77.7 13.8 95.4 989 25.1 14.5
VEGETABLES VEGETABLES Asparagus. Green snap beans. Cabbunge. Carticope and mackmelons* Carticope and mackmelons* Lettuce and romaine. Dry onions. Oreen peac (English). Tomatoce. All other vegetables harvested for sale.	1,366	19,159 1,234 2,492 2,140 2,122 5,616 2,081 3,018 1,541 6,984 NA	18,956 1,226 2,473 2,125 2,108 5,563 2,066 2,995 1,533 6,936	203 8 19 15 14 53 15 23 8 48	18,251 132 3,140 1,437 2,851 4,885 250 1,064 883 6,499 NA	1,439,729 100,581 36,196 38,851 97,513 93,597 181,144 71,692 146,445 218,471 455,239	1,113,305 98,943 29,576 32,719 90,015 78,093 179,937 58,935 24,569 210,698 309,770	1,105,592 97,414 29,321 32,493 89,608 76,679 179,299 58,690 24,307 210,110 307,671	7,713 1,579 255 226 407 1,414 638 245 262 588 2,099	326,424 1,588 6,620 6,132 7,498 15,504 1,207 12,757 121,876 7,773 145,469	77.3 98.4 81.7 84.2 92.3 83.4 99.3 82.2 16.8 96.4 68.0
FRUITS AND NUTS Berries and other small fruits harvested for sale, total. Strawberries Blackberries Blackberries Baysenberries Baysenberries Cranberries Cranberries Other berries	9,916 3,624 1,514 4,692 352 382 NA	NA 3,807 810 642 1,664 352 140 NA	NA 3,675 785 635 1,636 352 136 NA	NA 132 25 7 28 4 NA	NA 6,109 2,814 872 3,028 242 NA	65,386 38,043 7,428 4,166 10,147 1,493 1,355 2,754	33,618 23,874 2,043 2,679 2,669 1,493 351 509	32,213 22,787 1,965 2,630 2,531 1,493 333 474	1,405 1,087 78 49 138 18	31,768 14,169 5,385 1,487 7,478 1,004 2,245	51.4 62.8 27.5 64.3 26.3 100.0 25.9 18.5
Tree fruits, nuts, and grapes, total	113,994	60,260	59,750	510	53,734	2,029.194	1,612,693	1,538,782	73,911	416,501	79.5

NA Not available.

Nursery and greenhouse products (borticultural specialties) are the only excluded crops.

Compess for freeb market, or for canning, freezing or other proceeding are excluded.

Sorgham bay and annual legumes have (soybeans, compess, pearning, etc.) are excluded.

Data for honeydew melcon, reported separately in Arisons, included with cantaloups.

Summary Table 4.-IRRIGATION CROP SUMMARY -FARMS REPORTING, ACREAGE,

Data for 1959 and 1954 are not fully

=		Farms reporting								Dat	a for 1959 ar	nd 1954 s	ere not fully
				Farms I	èporting					Acı	res		
			1959			1954			1959			1954	
	Item	Irrig Total	Per- cent of total for item	Nonir- rigated		Per- cant of total for item	Nonirri- gated1	Irriga Total	Per- cent of total for item	Nonirri- gated 1	Irrigs Total	Per- cant of total for item	Nonirri- gated1
1 2 3 4 5	All farms and all land in farms Cropland harvested. Frigated farms and land in farms Cropland harvested. All other land in irrigated farms.	267,431 242,418 267,431 242,418 24,998	25.6 28.9 100.0 97.5 100.0	776,735 596,250 6,099	286,793 259,416 286,793 259,416 27,377	22.2 25.1 100.0 97.7 100.0	1,004,453 772,180 6,235	31,222,967 26,198,581 31,222,967 26,198,581 5,024,386	4.4 18.1 14.6 68.1 2.9	683,637,604 118,216,252 182,107,430 12,283,256 169,824,174	27,678,507 23,262,090 27,678,507 23,262,090 4,416,417	3.9 14.9 14.5 71.2 2.8	686,967,673 132,867,361 163,116,841 9,400,077 153,716,764
6	CROPS HARVESTED All specified crops harvested ³	NA.	NA :	NA	NA.	NA.	NA.	23,560,674	16.1	122,359,010	21,681,465	13.7	136,423,540
7	Field Crops All field crops harvested	NA.	NA.	NA	NA.	NA.	NA.	20.884.087	14.7	121.501.288	19.342.491	12.5	135,428,313
8 9 10 11 12	Corn for all purposes. Harvested for grain. Sorphums for all purposes, including sirup. Harvested for grain or seed. Small grains, total. Dunbels.	42,441 27,309 18,537 15,932 NA	12.8 10.0 8.0 8.8 NA	289,235 245,279 213,218 165,209 NA	37,565 20,713 17,426 13,031 NA	8.7 6.0 6.7 9.3 NA	392,121 322,308 241,984 126,740 NA	1,857,738 1,363,403 2,132,887 1,947,613 4,703,047	10.8 10.2 12.8 14.2 7.2	15,368,504 12,030,597 14,542,155 11,793,816 60,178,991	877,074 546,494 1,647,523 1,420,996 4,910,089	5.0 3.8 9.8 12.7 6.8	16,812,743 13,726,352 15,162,745 9,756,185 67,364,787
13 14 15 16 17 18 19 20 21	All wheat. bushels. Winter wheat bushels. Spring wheat bushels. Outs bushels bushels Barley bushels Ryc bushels Ryc bushels Rice bushels Kice bushels	NA 14,705 NA 19,539 31,924 676 263 6,806 NA	NA 6.0 NA 9.4 18.0 3.0 0.8 100.0 NA	NA 228,804 NA 188,325 145,289 22,012 33,764 	NA 10,173 NA 25,344 36,730 129 334 7,838 NA	NA 4.2 NA 8.4 21.6 0.7 0.6 100.0 NA	NA 231,970 NA 274,878 133,643 19,598 60,200 	1,328,536 829,224 499,312 364,322 1,564,089 14,003 37,623 1,198,088 196,386	3.4 2.9 4.6 4.6 12.9 1.6 1.6 100.0 21.6	38,077,394 27,759,320 10,318,074 7,601,246 10,547,302 889,172 2,350,797	902,936 415,286 487,650 410,691 1,669,239 1,920 38,234 1,747,667 139,402	2.2 1.5 3.6 3.4 16.5 0.3 0.9 100.0 6.8	40,418,883 27,210,410 13,208,473 11,719,813 8,433,575 733,942 4,159,049
22 23 24 25 26 27 28	Sopheans harvested for all purposes. Marvested for beans. Compass harvestes (reall purposes' bushels. Compass harvestes (reall purposes' bushels. Harvested for dry pease. Harvested for all purposes. Harvested for nuts. Dry field and seed beans harvested for beans. 100-lb. hags.	1,298 1,244 428 215 1,007 992	3.2 4.1 3.1 3.2 6.1 6.5	39,527 29,379 13,307 6,442 15,623 14,159	762 626 798 188 493 488	1.6 2.2 3.1 2.1 1.8 2.6	46,546 28,102 24,801 8,795 27,200 18,597	54,738 53,281 11,837 7,354 37,658 37,214	3.9 4.4 6.1 10.3 10.4 10.6	1,357,766 1,170,078 181,946 63,991 324,449 313,298	19,109 18,565 18,118 2,671 10,732 10,348	1.7 2.4 7.0 4.6 2.6 3.1	1,088,569 762,188 240,114 55,393 405,677 318,863
29	Dry field and seed peas harvested for peasbushels	1,390	38.4	2,230	1,732	44.9	2,125	47,388	14.1	289,031	673,371 42,583	17.0	239,792 207,385
30 31 32 33 34 35 36 37 38	Hays cut, total ² tons. Alfalfa and mixturestons. Clover, tinothy, and mixturestons. Lespedosa. Vetch or peastons. Outs, wheat, and other small grainstons. Other haytons. Other haytons. Other haytons. Oracs slingetons, green weight.	NA 94,047 13,344 30 134 10,298 6,576 3,906 1,193	NA 30.8 27.7 0.3 7.4 13.2 4.7 4.6 18.6	NA 211,325 34,861 9,410 1,669 67,968 133,445 80,104 5,222	NA 114,321 12,765 56 202 11,878 7,527 4,958 953	NA 30.3 20.3 0.5 4.5 12.1 4.6 5.1	262,531 50,251 11,164 4,326 86,626 157,265 91,567 6,071	6,796,002 4,343,682 821,282 420 3,034 228,674 1,209,612 148,065 41,233	24.1 36.3 48.3 0.3 9.8 9.4 12.5 7.1 21.9	21,397,288 7,612,661 878,219 159,690 28,063 2,194,929 8,453,798 1,923,300 146,628	6,699,325 4,375,629 695,242 842 2,297 219,564 1,220,588 158,703 26,460	22.0 34.8 39.8 0.5 4.1 10.0 10.7 7.3 16.8	23,801,175 8,211,083 1,052,968 159,304 53,074 1,974,288 10,191,910 2,027,240 131,308
39 40 41 42 43	Field seed crops harvested. Alfalfs seed. Bushels. Red clover seed. Swettlover seed. bushels. Other Teld seeds. bushels.	NA 3,436 2,557 141 NA	NA 17.0 35.4 3.7 NA	NA 16,747 4,669 3,653 NA	NA 5,648 1,524 257 NA	NA 15.8 29.2 2.8 NA	NA 30,134 3,693 8,894 NA	383,775 242,421 41,886 3,015 96,453	24.2 38.9 37.2 4.5 12.3	1,201,133 380,309 70,636 64,052 686,136	386,554 292,410 21,527 5,940 66,677	20.3 30.5 30.2 3.9 9.3	1,515,773 667,532 49,868 145,184 653,189
44 45 46 47 48 49 50	Cotton harvested. bales. Irich potatoes harvested. bushels. Sugar heets harvested. bushels. Sugar heets harvested. toms. Rope harvested. pumde. Popcorn harvested. 1,000 lh. ear corn. All other field crops harvested.	29,991 13,942 902 17,815 403 210 NA	22.0 14.9 3.0 97.3 94.8 11.5 NA	106,426 79,435 28,836 503 22 1,622 NA	30,974 25,126 1,704 17,871 360 290 NA	14.1 10.4 2.9 96.9 86.1 21.8 NA	189,131 215,924 57,269 570 58 1,038 NA	2,923,665 439,687 12,341 699,865 32,430 4,437 91,621	34.1 77.1 13.5 95.2 97.9 21.9 14.0	5,661,889 130,610 79,211 35,415 685 15,840 560,809	2,909,240 387,365 14,131 660,154 23,833 4,096 59,194	27.4 73.1 11.4 94.9 95.0 21.8 9.1	7,697,124 142,245 110,252 35,469 1,255 14,714 588,494
51 52 53 54 55 56 57 58 59 60 61	VEGETABLES HARVESTED FOR SALE Vegetables harvested for sale, total Asparague, Green snap beans Cabbeago, sna mashmelons Sweet corn Sweet corn Letture on runnine. Dry unions. Green peas (English) Tomatoes. All other vegetables for sale	18,956 1,226 2,473 2,125 2,108 5,563 2,066 2,995 1,533 6,936 NA	50.7 89.8 43.9 59.4 42.4 53.0 88.6 73.4 63.2 51.4 NA	18,454 140 3,159 1,452 2,865 4,938 265 1,087 891 6,547 NA	20,978 1,231 3,302 2,511 2,466 6,674 2,735 2,726 1,846 8,353 NA	38.5 82.7 48.7 54.6 43.5 66.8 86.8 66.4 59.1 45.4 NA	33,557 258 3,478 2,087 3,206 3,321 415 1,380 1,277 10,055	1,105,592 97,414 29,321 32,493 89,608 76,679 179,299 58,690 24,307 210,110 307,671	76.8 96.9 81.0 83.6 91.9 81.9 99.0 81.9 96.2 67.6	334,137 3,167 6,875 6,358 7,905 16,918 1,845 13,002 122,138 8,361 147,568	975,609 83,595 31,385 29,079 88,278 76,217 174,040 38,082 25,770 147,067 282,096	69.8 97.5 78.4 75.9 89.2 80.7 99.0 59.7 18.0 85.9 57.9	422,695 2,167 8,639 9,234 10,680 18,276 1,828 25,720 117,044 24,060 205,047
62 63 64 65 66 67 68 69	FRUITS AND NUTS HARVESTED Berries and other small fruits harvested for sale, total	NA 3,675 785 635 1,636 352 136 NA	NA 37.1 21.7 41.9 34.9 100.0 35.6 NA	NA 6,241 2,839 879 3,056 246 NA	NA 4,744 579 825 2,246 412 75 NA	NA 38.7 17.2 37.3 35.6 100.0 22.2 NA	NA 7,508 2,778 1,384 4,065 263 NA	32,213 22,787 1,965 2,630 2,531 1,493 333 474	49.3 59.9 26.5 63.1 24.6 17.2	33,173 15,256 5,463 1,536 7,616 1,022 2,280	24,588 17,505 948 2,167 1,934 1,375 173 486	40.1 47.8 11.9 45.3 23.9 100.0 28.8 24.8	36,794 19,136 6,990 2,617 6,147 427 1,477
70	Free fruits, nuts, and grapes, total	59,750	52.4	54,244	67,668	51.0	64,964	1,538,782	75.8	490,412	1,338,777	71.4	

MA Not available. ¹Data for a crop which was only partly irrigated are included with the nonirrigated crops. ²17 conterminous Western States and Louisians. ³Nursery and greenhouse products (horticultural specialities) are the only excluded crops. ¹Compeas for fresh market, or for canning, freezing or other processing are excluded. ²Sorghum hay and annual legume hays (coybeans, cowpeas, and peanuts,) are excluded. The acreages for soybeans, compeas, and peanuts included with cantalogus. and peanuts included with cantalogus. ¹Data for honey/dew melons reported separately nations, included with cantalogus.

PRODUCTION, AND VALUE OF PRODUCTION FOR 18 SPECIFIED STATES: 1959 AND 1954 comparable. See text, page

comparable. See text, page Production Value of production														_		
		1959		Prod	luction		1954				1959	Value of	production	1051		1
		1959	N111		T	gated	1954	Nonirriga		Irrigate		Ι	Irrigate	1954		
Total units	Per- cent of total for item	Aver- age per acre	Nonirrige	Aver- age per acre	Total units	Per- cent of total for item	Aver- age per acre	Total units	Aver- age per acre	Dollars	Per- cent of total for item	Nonirrigated (dollars)	Dollars	Per- cent of total for item	Nonirrigated (Dollars)	
XXX XXX XXX XXX XXX	X2XX X2XX X2XX X2XX	300X 300X 300X 300X	XCCX XCXX XCCX XCCX XCCX	XXXX XXXX XXXX XXXX	XXX XXX XXX XXX	XXX XXX XXX XXX	XXX XXX XXX XXX XXX	2003 2003 2003 2003 2003	XXX XXX XXX XXX	XXXX XXXX XXXX XXXX	XXX XXX XXX XXX	XCX XXX XXX XCX	200X 200X 200X 200X 200X	XXX XXX XXX XXX	XXXX XXXX XXXX XXXX	
xxxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	
xxx	xxx	xxx	xxx	xxx	xnox	xxx	xxx	xxx	xxx	2,438,855,102	38.9	3,837,406,737	2,178,631,554	34.9	4,068,246,089	
98,228,621 xxx 124,396,146 xxx	26.2 26.2	xxx 72,0 xxx 63.9 xxx	xxx 441,071,293 xxx 350,302,042 xxx	29.7 29.7 2000	29,810,600 200x 68,992,580 200x	7.8 7.8 xxx 31.1 xxx	54.5 500 48.6 500	353,578,031 xxx 152,764,991 xxx	25,8 25,8 xxx 15.7 xxx	157,394,633 111,528,254 126,161,788 114,794,708 380,600,032	22.1 19.4 24.5 28.1 18.2	553,642,191 464,323,368 389,761,438 294,201,076 1,714,117,850	75,301,494 46,553,789 98,657,001 88,136,130 381,563,370	11.2 8.6 23.5 31.6 16.8	598,802,067 497,803,660 321,964,823 190,919,053 1,886,937,725	1
52,182,584 28,394,776 23,787,808 17,264,207 79,952,435 333,790 1,387,544 89,791,855	6.5 4.5 14.2 8.8 23.9 2.6 9.5 100.0 xxx	39.3 34.2 47.6 47.4 51.1 23.8 36.9 74.9	745,126,092 601,178,019 143,948,073 179,204,454 255,156,094 12,454,899 13,229,696	19.6 21.7 14.0 23.6 24.2 14.0 5.6	28,872,032 9,243,730 19,628,302 16,979,143 77,364,746 24,761 1,228,170 100,350,168	4.5 1.9 12.6 5.1 27.5 0.3 4.5 100.0 xxx	32.0 22.3 40.3 41.3 46.3 12.9 32.1 57.4 xxx	613,011,316 476,536,376 136,474,940 314,511,146 203,799,684 9,731,399 25,953,144 xxx	15.2 17.5 10.3 26.8 24.2 13.3 6.2	88,462,837 49,550,128 38,912,709 11,705,264 78,456,857 339,130 4,012,691 185,495,347 12,441,593	6.3 4.5 12.6 9.6 27.3 2.9 9.1 100.0 41.3	1,326,293,453 1,055,995,641 270,297,812 109,614,011 208,642,758 11,335,287 40,245,866 17,672,788	59,045,831 19,725,434 39,320,397 13,233,048 87,808,052 27,578 4,118,897 209,723,372 7,606,592	4.3 1.9 11.6 5.9 28.7 0.2 5.0 100.0 17.1	1,328,763,148 1,028,876,777 299,886,371 212,937,343 218,201,761 12,117,324 78,081,294 36,836,855	1 1 1 1 1 1 1
1,324,568 xxx 91,132 xxx 68,288,914	2000 5.7 2000 13.0 23.6	xxx 24.9 xxx 12.4 xxx 1,835	21,887,268 21,887,268 2000 612,262 2000 221,033,360	xxx 18.7 xxx 9.6 xxx 706	38,482 23,942,918	10.3 xxx 10.3 xxx 11.8	23.5 23.5 xxx 14.4 xxx 1,347	10,374,840 xxx 334,764 xxx 103,805,316	13.6 200 200 200 200 326	2,481,128 2,455,567 357,024 331,208 6,794,035 6,742,099	5.6 5.7 10.1 13.9 23.8 24.6	41,604,627 40,417,173 3,167,384 2,059,472 21,776,022 20,657,788	1,058,753 1,047,555 196,264 164,782 1,789,673 1,676,591	3.7 4.0 6.0 10.3 9.0 11.8	27,695,218 25,161,385 3,088,796 1,431,626 18,134,127 12,473,659	2 2 2
11,487,993 1,530,259	94.6 18.7	17.5 32.3	660,811 6,647,793	3.8 23.0	11,374,196 1,022,825	90.4 18.5	16.9 24.0	1,203,870 4,505,078	5.0 21.7	88,287,967 3,800,663	94.4 19.1	5,245,111 16,142,892	86,366,934 3,072,188	90.5 18.5	9,015,875 13,563,778	2
18,508,229 15,103,044 1,231,371 1,085 6,367 402,247 1,203,257 229,561 331,297	43.1 56.8 49.7 0.5 11.9 17.8 15.6 9.6 25.9	2.7 3.5 1.5 2.6 2.1 1.8 1.0 1.6 8.0	24,480,012 11,480,990 1,247,225 221,497 47,244 1,856,153 6,509,396 2,172,106 945,401	1.1 1.5 1.4 1.7 0.8 0.8 1.1 6.4	16,948,671 14,058,013 961,624 1,109 4,393 359,532 1,147,711 226,289 190,000	39.1 52.3 40.4 0.7 4.5 15.6 13.5 10.8 20.8	2.5 3.2 1.4 1.3 1.9 1.6 0.9 1.4 7.2	26,388,948 12,831,159 1,419,352 154,204 92,496 1,939,276 7,368,111 1,859,748 724,602	1.1 1.6 1.3 1.0 1.7 1.0 0.7 0.9 5.5	449,267,098 379,716,242 27,680,328 25,709 142,313 8,532,680 26,233,412 4,602,070 2,334,344	50.6 63.1 51.7 0.6 12.0 19.7 19.9 10.7 25.9	437,988,100 221,968,022 25,890,392 4,035,807 1,042,715 34,787,778 105,267,720 38,306,367 6,689,299	375,619,778 316,099,995 21,952,389 31,193 92,253 7,289,160 24,448,203 4,407,162 1,299,423	43.7 54.9 42.7 0.8 4.5 15.8 18.0 12.0 20.7	483,371,484 260,122,880 29,411,200 4,038,935 1,942,416 38,898,216 111,700,027 32,282,993 4,974,817	3: 3: 3: 3: 3:
1,254,359 218,000 14,514 xxx	71.4 66.2 6.2 xxx	5.2 5.2 4.8 xxx	502,066 111,234 219,032	1.3 1.6 3.4	1,573,178 1,573,178 121,621 31,127	60.0 64.3 7.2 xxx	5.4 5.6 5.2 xxx	1,048,861 67,498 402,610	1.6 1.4 2.8	37,332,929 23,554,128 3,921,741 77,771 9,779,289	46.0 76.9 69.7 6.3 22.4	43,900,433 7,095,209 1,705,772 1,162,759 33,936,693	41,779,604 32,181,043 3,776,503 198,742 5,623,316	46.0 63.1 66.3 6.9 18.0	48,995,163 18,791,448 1,917,752 2,691,780 25,594,183	43
4,589,108 162,477,070 2,056,912 13,796,573 53,527,469 8,299	58.9 86.1 20.5 97.0 98.1 25.3 xxx	1.6 369.5 166.7 19.7 1,651 1.9	3,204,786 26,223,702 7,991,005 422,252 1,053,447 24,496	0.6 200.8 100.9 11.9 1,538 1.5 XXX	4,060,990 129,390,040 1,946,623 11,312,301 36,993,634 6,930	58.4 82.3 19.2 96.6 96.7 30.9	1.4 334.0 137,8 17.1 1,552 1.7	2,898,305 27,871,389 8,206,509 402,544 1,281,419 15,492	0.4 195.9 74.4 11.3 1,021 1.1 xxx	768,659,790 212,715,997 6,560,158 157,931,722 26,611,749 204,950 13,693,439	59.9 88.7 40.3 97.0 98.2 28.0 20.7	4515,097,864 27,026,635 9,702,411 4,856,701 490,071 528,012 52,358,995	4786,825,973 166,144,709 7,108,245 127,758,979 14,907,610 279,893 10,201,086	58.5 85.6 29.3 96.8 96.5 37.5 17.7	558,774,774 28,046,931 17,110,967 4,273,444 544,812 466,860 47,459,245	45
XXX XXX XXX XXX XXX XXX XXX XXX XXX XX	200x 200x 200x 200x 200x 200x 200x 200x	XX	2000 2000 2000 2000 2000 2000 2000 200	2000 2000 2000 2000 2000 2000 2000 200	2000 2000 2000 2000 2000 2000 2000 200	XXX XXX XXX XXX XXX XXX XXX XXX XXX XX	X0X X0X X0X X0X X0X X0X X0X X0X X0X X0X	XXXX XXXX XXXX XXXX XXXX XXXX XXXX XXXX XXXX	X0X XXX XXX XXX XXX XXX XXX XXX XXX XXX	370,033,730 NA NA NA NA NA NA NA NA	91.0 NA NA NA NA NA NA NA NA	36,509,326 NA NA NA NA NA NA NA NA	250,314,681 NA NA NA NA NA NA NA NA	79.5 NA NA NA NA NA NA NA NA	64,558,985 NA NA NA NA NA NA NA NA	52 53 54 55 56 57 58 58 59 60
xxx 141,303,547 8,597,110 10,136,177 6,038,888 154,301 903,508 xxx	74.6 41.8 71.9 28.7 100.0 41.5	xxx 6,201 4,375 3,854 2,386 103.3 2,713 xxx	48,128,007 11,979,410 3,968,529 14,978,590 1,273,924	3,155 2,193 2,584 1,967 	95,635,026 3,590,778 9,370,747 4,626,323 93,031 211,630	66.0 23.2 63.1 25.5 100.0 30.1	5,463 3,788 4,324 2,392 67.7 1,223	49,187,502 11,903,855 5,478,940 13,483,728 492,346	2,570 1,703 2,094 2,194 1,153	43,431,217 37,822,698 1,037,593 1,217,437 1,519,284 1,383,473 257,500 193,232	72.5 78.0 41.6 71.7 32.4 100.0 41.5 32.6	16,059,275 10,640,576 1,457,970 480,925 3,167,348 363,134 399,322	32,908,891 27,231,634 521,579 2,069,916 1,621,184 1,116,372 69,838 278,368	63.4 70.9 21.0 66.0 28.5 100.0 30.1 33.2	18,989,771 11,170,719 1,961,193 1,064,308 4,070,270 162,367 560,914	6:
xxx	xxx	XXX	хохх	xxx	xxx	x00x	2003	xxx	2202	NA.	NA.	NA.	NA.	NA.	NA.	70

Summary Table 5.-SPECIFIED CROPS IRRIGATED -FARMS REPORTING, ACREAGE, AND

				Corn for al	ll purposes					Corn harves	ted for grain		
	State and item	I	arms reportin	ε		Acres		I	arms reporti	ng		Acres	
		1959	1954	1949	1959	1954	1949	1959	1954	1949	1959	1954	1949
1 2 3	18 Statea: Total Irrigated Nonirrigated	331,676 42,441 289,235	429,686 37,565 392,121	560,793 33,939 526,854	17,226,242 1,857,738 15,368,504	17,689,817 877,074 16,812,743	20,116,645 634,756 19,481,889	272,588 27,309 245,279	343,021 20,713 322,308	507,075 22,326 484,749	13,394,000 1,363,403 12,030,597	14,272,846 546,494 13,726,352	17,830,016 457,136 17,372,880
4	Louisiana: Irrigated Nomirrigated	168 34,097	543 57,529	327 71,846	1,067 395,512	3,881 602,569	645 721,237	157 32,529	447 54,302	205 70 , 056	1,000 361,639	3,330 554,116	460 690,349
6 7	Hawaii:* Irrigated Nomirrigated	9 14	NA NA	NA NA	192 41	NA NA	NA NA	9 14	NA NA	NA NA	192 41	NA NA	NA NA
8 9 10	17 Western States: Total Irrigated Nonirrigated	297,411 42,273 255,138	371,614 37,022 334,592	488,620 33,612 455,008	16,829,663 1,856,671 14,972,992	17,083,367 873,193 16,210,174	19,394,763 634,111 18,760,652	239,902 27,152 212,750	288,272 20,266 268,006	436,814 22,121 414,693	13,031,361 1,362,403 11,668,958	13,715,400 543,164 13,172,236	17,139,207 456,676 16,682,531
11 12	Arizona: Irrigated Nonirrigated	387 52	808 153	825 185	11,158 17,907	14,755 12,324	13,213 17,476	153 21	441 98	543 121	3,079 17,032	6,615 11,429	9,361 15,944
13 14	California: Irrigated Nonirrigated	4,850 344	3,918 553	2,415 1,207	241,043 14,608	132,067 10,646	39,644 20,012	2,178 111	1,939 260	899 561	151,084 10,717	89,689 5,792	16,871 11,838
15 16	Colorado: Irrigated Nonirrigated	8,623 2,269	8,415 3,461	9,800 6,380	316,918 157,437	185,195 210,427	189,402 423,840	5,888 1,354	4,386 1,864	6,975 4,814	181,278 112,944	77,166 136,356	121,904 350,991
17 18	Idaho: Irrigated Nonirrigated	3,476 1,128	3,484 149	2,651 231	75,934 1,884	42,218 1,792	24,035 1,905	1,742 19	1,342 31	1,602 123	23,654 165	13,737 245	12,302 793
19 20	Kansas: Irrigated Nomirrigated	911 42,267	254 50,303	55 65,052	49,986 1,819,955	10,013 2,023,859	1,551 2,367,022	602 38,621	129 29,428	48 61,966	37,391 1,637,425	5,461 1,312,024	1,439 2,229,512
21 22	Montana: Irrigated Nonirrigated	839 1,451	713 2,479	591 2,335	23,999 86,224	15,839 140,189	10,012 116,991	95 28	112 141	225 192	2,265 580	1,727 3,555	2,884 3,738
23 24	Nebraska: Irrigated Nomirrigated	9,133 62,276	4,906 78,671	3,667 84,884	841,739 5,852,183	300,533 6,431,648	239,231 7,161,716	8,964 61,156	4,639 77,185	3,493 83,742	805,763 5,649,411	275,363 6,106,226	229,760 6,977,733
25 26	Nevada: Irrigated Nomirrigated	159 3	169 4	170 8	4,055 115	2,939 104	1,938 50	31 1	27 3	54 3	305 3	282 85	300 15
27 28	New Mexico: Irrigated Nonirrigated	2,172 669	3,576 1,034	4,471 3,981	23,048 11,004	20,327 19,917	29,096 60,945	1,744 51 7	2,931 714	3,815 3,430	12,423 8,617	12,263 12,899	23,957 48,941
29 30	North Dakota: Irrigated Nomirrigated	53 23,227	36 29,006	72 29,813	1,545 1,308,111	760 1,224,830	1,596 1,170,593	5,423	6 11,929	9 14,129	267,887	120 394,180	191 509,841
31 32	Oklahoma: Irrigated Nonirrigated	65 12,351	39 17,164	9 56,986	2,157 210,268	560 276,360	204 1,068,020	43 11,558	24 11,617	9 55,491	1,493 194,853	326 187,179	204 1,035,785
33 34	Oregon: Irrigated Nomirrigated	1,516 1,312	1,157 1,517	738 3,004	32,220 19,578	15,076 12,510	6,102 19,208	808 675	611 645	490 1,427	16,081 11,136	7,107 5,442	3,589 7,523
35 36	South Dakota: Irrigated Nomirrigated	309 40,754	263 49,766	244 50,167	13,415 4,087,111	8,905 4,004,952	7,846 4,007,033	198 30,064	132 45,121	126 43,534	8,388 2,448,097	4,031 3,348,760	2,831 3,259,124
37 38	Texas; Irrigated Nomirrigated	2,621 65,983	2,746 98,606	2,069 148,167	57,338 1,358,012	38,866 1,798,222	18,721 2,282,795	1,782 63,074	1,567 88,717	1,693 144,537	36,498 1,306,546	22,342 1,643,550	14,687 2,222,716
39 40	Utah: Irrigated Nomirrigated	3,414 97	3,552 323	3,434 405	43,485 1,051	34,486 2,826	26,116 3,630	388 13	295 29	666 66	4,156 76	2,571 245	3,992 365
41 42	Washington: Irrigated Nonirrigated	2,634 578	2,062 692	1,689 1,364	81,434 6,549	31,383 5,972	12,943 7,009	1,904 53	1,445 94	1,174 270	59,453 1,090	20,932 1,239	7,370 1,411
43 44	Wyoming: Irrigated Nomirrigated	1,111 377	924 711	712 839	37,197 20,995	19,271 33,596	12,461 32,407	632 62	240 130	300 287	19,092 2,379	3,432 3,030	5,034 6,261

See footnotes at end of table.

T		harvested r for seed			oses	s for all purp	Sorghum				ed	-Continue	sted for grain-	Corn harve	
	ng	ms reporti	Far		Acres		ng	ms reporti	Far	Bushels				Produ (bus)	
	1949	1954	1959	19497	1954	1959	19497	1954	1959	sold, 1959	e per re	Average act	1949	1954	1959
5 2	130,123 7,316 122,807	139,771 13,031 126,740	181,141 15,932 165,209	9,734,946 642,276 9,092,670	16,810,268 1,647,523 15,162,745	16,675,042 2,132,887 14,542,155	259,308 9,984 249,324	259,410 17,426 241,984	231,755 18,537 213,218	297,950,479 71,119,598 226,830,881	26.9 54.5 25.8	40.3 72.0 36.7	466,543,742 20,574,359 445,969,383	383,388,631 29,810,600 353,578,031	539,299,914 98,228,621 441,071,293
4 5	340	2 268	1 231	8,244	320 14,347	61 11,855	4 1,679	12 1,519	2 797	26,501 2,975,589	37.9 19.3	54.8 30.5	16,180 13,013,877	126,123 10,666,987	54,820 11,041,790
	NA NA	NA NA	:::	NA NA	NA NA	:::	NA NA	NA NA	:::	455 528	NA NA	14.6 43.8	NA NA	NA NA	2,795 1,796
5 9	129,783 7,316 122,467	139,501 13,029 126,472	180,909 15,931 164,978	9,726,698 642,272 9,084,426	16,795,601 1,647,203 15,148,398	16,663,126 2,132,826 14,530,300	257,625 9,980 247,645	257,879 17,414 240,465	230,956 18,535 212,421	294,948,389 71,093,097 223,855,292	27.2 54.7 26.0	40.5 72.1 36.9	453,513,685 20,558,179 432,955,506	372,595,521 29,684,477 342,911,044	528,203,304 98,173,801 430,029,503
11 12	881 15	1,191	799	67,018 1,286	132,823 819	140,404 1,055	1,189	1,695 44	1,245 31	67,378 2,450	33.4 7.6	34.6 8.3	203,268 185,009	220,970 86,895	106,448 140,560
	1,033 403	1,572 164	2,355 161	48,457 19,316	117,538 17,308	220,661 22,254	1,321 498	2,101 268	2,762 224	9,553,609 649,365	57.2 45.1	68.4 65.3	673,366 477,445	5,127,537 261,182	10,333,611 700,188
	595 2,492	672 2,816	1,352 2,534	21,606 575,641	35,886 759,991	89,387 519,821	874 7,269	1,100 6,113	1,599 4,515	7,936,106 1,258,066	53.9 11.6	71.5 18.7	6,186,385 5,430,260	4,160,804 1,583,399	12,969,802 2,112,580
17			12	26	34	569 30			22 1	889,860 4,076	61.2 44.6	75.4 66.1	676,650 37,097	841,185 10,916	1,784,299 10,902
19 20	188 34,447	460 46,419	934 58,727	18,731 2,247,855	70,883 5,352,068	135,332 4,661,229	217 61,551	558 74,949	1,010 67,549	1,820,300 35,038,180	41.1 23.6	65.5 41.2	69,855 61,715,432	224,653 30,998,736	2,450,957 67,451,466
21 22				189 2,295	235	68 105	11 122		3	59,414 12,300	33.2 16.5	54.4 32.6	91,580 66,063	57,359 58,8 25	123,154 18,910
	57 4,45%	377 16,363	1,256 30,199	3,230 295,902	13,588 745,400	49,911 1,501,569	125 14,679	573 24,642	1,429 33,862	43,416,420 141,112,958	56.4 27.7	74.5 44.3	10,682,142 213,576,966	15,535,984 169,083,590	59,994,850 250,223,710
7 25 1 26		3	10	80 10	121	297	7		18	7,254	37.8 13.8	61.1 58.3	12,584 510	10,662 1,175	18,634 175
	49' 2,46	900 1,125	907 791	34,874 485,233	86,962 331,094	98,280 186,300	1,157 3,578	1,809 1,820	1,403 1,212	171,546 32,957	29.4 12.2	38.1 15.5	548,183 664,677	360,459 157,144	472,917 133,650
. 29 0 30	20	NA NA	25	34,133	10,001	30 9,719	2,498	724	1 525	3,499,928	45.4 23.1	25.2	7,919 11,457,758	5,450 9,086,147	6,750,774
	20,789	106 11,850	189 16,885	2,855 1,057,621	6,238 1,565,429	17,582 1,135,054	70 42,852	155 36,339	235 26,619	51,060 2,005,918	51.3 11.7	60.3 31.5	7,246 19,196,911	16,720 2,195,987	90,090 6,143,428
	:::			:::		228 1	:::		7	822,540 308,867	65.9 53.2	78.2 47.7	175,819 308,530	468,136 289,640	1,258,184 531,475
	656	NA NA	8 4,130	106 147,410	521 141,078	852 276,538	9 7,213	16 5,610	18 8,428	191,957 24,787,625	33.6 30.3	55.6 25.0	93,187 76,056,1 <i>3</i> 7	135,433 101,362,317	466,402 61,167,507
9 37 1 38	3,989 56,721	7,724 47,712	7,841 51,510	444,638 4,2 13, 550	1,181,980 6,223,668	1,371,249 6,214,051	4,924 107,137	9,318 89,903	8,452 69,357	1,365,914 15,046,417	36.3 16.8	49.2 26.4	436,370 43,641,027	811,428 27,605,913	1,797,261 34,478,973
4 39 2 40	2	12	15	346 30	405 98	393 14	62 7	67 10	43	138,537 1,925	57.9 41.1	65.1 77.2	128,322 7,906	148,914 10,078	270,620 5,867
41 42	:::	10	245	:::	122 70	7,089 46	:::	11 3	254 1	4,064,474 49,755	67.0 49.0	82.4 73.9	402,276 47,553	1,403,278 60,700	4,900,100 80,520
1 43	1		2 8	116 4,144	102 1,106	494 2,514	10 163	3 31	33 91	536,728 44,505	45.3 19.3	59.5 33.1	163,027 86,225	155,505 58,400	1,136,472 78,818

Summary Table 5.-SPECIFIED CROPS IRRIGATED -FARMS REPORTING, ACREAGE, AND

				Sorghums h	arvested for g	rain or for se	ed—Continued				Grains g	rown togeti		reshed
	State and item		Acres			Prod (bus	uction hels)			Bushels	Far repor		Ac	res
		1959	1954	1949	1959	1954	1949	Aver per	age acre 1954	sold, 1959	1954	1949	1954	1949
1 2 3	18 States: Total Irrigated Nonirrigated	13,741,429 1,947,613 11,793,816	11,177,181 1,420,996 9,756,185	6,229,121 545,659 5,683,462	474,698,188 124,396,146 350,302,042	221,757,571 68,992,580 152,764,991	139,951,516 22,848,137 117,103,379	34.5 63.9 29.7	19.8 48.6 15.7	365,054,904 110,750,343 254,304,561	20,737 9,199 11,538	27, 518 8, 135 19, 383	487,219 117,940 369,279	850,050 115,328 734,722
4 5	Louisiana: Irrigated Nonirrigated	20 5,239	34 3,650	2,684	180 140,489	880 72,457	45,239	9.0 26.8	25.9 19.9	47,553	NA '	NA NA	NA NA	NA NA
6 7	Hawaii:* Irrigated Nonirrigated		NA NA	NA NA		NA NA	NA NA	:::	NA NA		NA NA	NA NA	NA NA	NA NA
8 9 10	17 Western States: Total Irrigated Nonirrigated	13,736,170 1,947,593 11,788,577	11,173,497 1,420,962 9,752,535	6,226,437 545,659 5,680,778	474,557,519 124,395,966 350,161,553	221,684,234 68,991,700 152,692,534	139,906,277 22,848,137 117,058,140	34.5 63.9 29.7	19.8 48.6 15.7	365,007,351 110,750,343 254,257,008	20,737 9,199 11,538	27,518 8,135 19,383	487,219 117,940 369,279	850,050 115,328 734,722
11 12	Arizona: Irrigated Nonirrigated	100,521 255	104,112 81	55,631 409	5,768,071 9,268	5,160,341 1,402	2,493,345 7,901	57.4 36.3	49.6 17.3	4,972,829	NA NA	NA NA	NA NA	NA NA
1.3 14	California: Irrigated Nonirrigated	195,402 19,656	97,505 13,837	42,361 16,675	12,626,952 999,452	5,250,295 658,355	1,696,055 691,888	64.6 50.8	53.8 47.6	11,361,277 949,837	NA NA	77 304	NA NA	3,429 28,334
15 16	Colorado: Irrigated Nonirrigated	76,241 307,971	22,200 363,610	16,378 281,242	3,500,614 5,073,827	718,822 3,284,719	624,138 4,492,966	45.9 16.5	32.4 9.0	2,357,409 3,234,953	267 185	649 753	4,425 10,821	12,509 48,143
17 18	Idaho: Irrigated Nonirrigated	220	34	21	11,735	156	567	53.3	4.6	na na	6,475 623	4,594 441	73,320 20,016	54,910 16,776
19 20	Kamsas: Irrigated Nomirrigated	123,347 3,711,981	50,614 3,495,378	15,815 1,345,965	7,453,224 115,747,879	2,073,466 47,751,513	699,463 28,533,189	60.4 31.2	41.0 13.7	5,726,269 72,409,087	1 1,419	2 1,479	30 46,096	38 65,664
21 22	Montana: Irrigated Nonirrigated	50	187	32	447	773	145	8.9	4.1		326 424	356 477	7,605 17,876	8,204 22,353
23 24	Nebraska; Irrigated Nonirrigated	45,557 1,347,526	9,632 508,327	1,385 105,573	3,123,065 56,8 1 2,255	442,895 13,667, 6 04	43,979 2,485,092	68.6 42.2	46.0 26.9	2,367,739 38,515,768	16 1,568	26 6,437	343 45,763	461 201,086
25 26	Nevada: Irrigeted Nonizrigated	131	90	80 10	7,687	2,700	488	58.7	30.0	NA 		NA NA	189	NA NA
27 28	New Mexico: Irrigated Nonirrigated	74,442 139,622	54,009 219,335	16,928 388,617	3,821,657 3,247,184	1,994,950 2,576,900	545,988 8,442,005	51.3 23.3	37.0 11.7	3,229,189 2,528,763	35 33	150 134	590 1,993	1,187 6,168
29 30	North Dakota: Irrigated Nonirrigated	456	NA NA	234	10,000	NA NA	3,689	21.9	NA NA	4,380	6 598	14 569	119 23,664	294 42,794
31 32	Oklahoma: Irrigated Nonirrigated	13,998 707,170	4,639 609,005	2,493 529,788	702,874 16,614,616	154,153 6,046,607	60,661 7,870,671	50.2 23.5	33.2 9.9	559,419 9,302,841	2 2,623	1,771	52 76,556	68,351
33 34	Oregon: Irrigated Nonirrigated	217			13,350	267	***	61.5	8.1	AM AM	579 1,904	402 2,557	8,607 43,002	6,565 64,963
35 36	South Dakota: Irrigated Nonirrigated	469 139,073	NA NA	57 19,343	25,539 3,148,466	NA NA	650 236,043	54.5 22.6	NA NA	21,464 1,218,036	2 851	8 1,147	14 38,636	268 50,330
37 38	Texas: Irrigated Nonirrigated	1,309,919 5,414,685	1,077,929 4,542,166	394,461 2,992,788	86,886,123 148,495,871	53,185,972 78,697,679	16,682,388 64,293,351	66.3 27.4	49.3 17.3	80,154,391 126,093,230	55 627	30 2,407	3,349 26,959	1,514 88,293
39 40	Utah: Irrigated Nonirrigated	158	78	19 27	8,778 110	1,992	2 65 300	55.6 22.0	25.5	NA NA	1, <u>1</u> 36 106	1,426	13,595 2,549	17,343 10,309
41 42	Washington: Irrigated Nonirrigated	6,940 46	120 70		444,404 571	5,958 2,050		64.0 12.4	49.7 29.3	NA NA	73 509	82 521,	914 12,375	1,247 14,326
43 44	Wyoming: Irrigated Nonirrigated	31 81	506	30 75	1,893 1,607	4,665	150 900	61.1 19.8	9.2	357 113	218 68	319 172	4,788 2,973	7,359 6,832

See footnotes at end of table.

Grains grown as a mi	together and xture—Contin	threshed ued						Winter w	heat harvested						
	Production (bushels)		Far	ms reporti	ng		Acres			Pro (bu	duction shels)			Bushels	
1954	1949	Average per acre, 1954	1959	1954	1949	1959	1954	1949	1959	1954	1949	Aver per 1959	age acre	sold, 1959	
12,581,433	17,165,789	25.8	243,509	242,143	269,807	28,588,544	27,625,696	38,491,727	629,572,795	485,780,106	523,515,363	22.0	17.6	595,303,478	1 2 3
5,732,019	4,868,697	48.6	14,705	10,173	10,686	829,224	415,286	469,680	28,394,776	9,243,730	11,987,502	34.2	22.3	27,566,147	
6,849,414	12,297,092	18.5	228,804	231,970	259,121	27,759,320	27,210,410	38,022,047	601,178,019	476,536,376	511,527,861	21.7	17.5	567,737,331	
NA	NA	NA	4	NA	NA	152	NA	NA	4,172	na	NA	27.4	NA	3,865	4 5
NA	NA	NA	509	NA	NA	32,309	NA	NA	704,896	na	NA	21.8	NA	66 2, 353	
NA NA	NA NA	NA NA	:::	NA NA	NA NA	:::	NA NA	NA NA		NA NA	NA N A		NA NA		6 7
12,581,433	17,165,789	25.8	242,996	242,143	269,807	28,556,083	27,625,696	38,491,727	628,863,727	485,780,106	523,515,363	22.0	17.6	594,637,260	9
5,732,019	4,868,697	48.6	14,701	10,173	10,686	829,072	415,286	469,6 8 0	28,390,604	9,243,730	11,987,502	34.2	28.8	27,562,282	
6,849,414	12,297,092	18.5	228,295	231,970	259,121	27,727,011	27,210,410	38,022,047	600,473,123	476,536,376	511,527,861	21.7	17.5	567,074,978	
NA	NA	NA	603	247	705	72,079	7,347	21,879	3,053,948	217,362	646,017	42.4	29.6	3,020,391	
NA	NA	NA	21	74	110	854	3,906	5,315	12,691	42,494	61,488	14.9	10.9	11,383	
NA	118,562	NA	1,349	715	962	76,114	53,603	117,705	3,173,748	1,697,061	4,091,708	41.7	31.7	3,105,518	13
NA	647,171	NA	1,535	2,386	3,407	261,738	405,467	503,179	4,996,292	7,138,796	7,118,649	19.1	17.6	4,748,942	14
133,246	428,876	30.1	2,441	1,339	2,460	55,416	25,949	61,783	1,911,210	566,058	1,579,704	34.5	21.8	1,816,586	
103,620	851,629	9.6	9,018	7,921	9,903	2,157,082	1,504,938	2,248,128	46,830,408	14,799,140	33,527,157	21.7	9.8	43,737,332	
3,997,557	2,649,311	54.5	726	639	736	17,442	15,314	14,043	653,716	438,245	408,102	37.5	28.6	607,505	17
480,505	364,108	24.0	4,625	4,851	6,135	656,741	631,168	947,822	19,407,968	16,763,898	20, 1 43,001	29.6	26.6	18,559,620	
100 766,086	650 826,548	3.3 16.6	450 82,555	263 83,940	87,782	58,322 9,797,900	21,012 9,462,468	13,397,688	1,824,962 197,779,801	341,212 162,766,930	145,6 <i>5</i> 7,700	31.3 20.2	16.2 17.2	1,765,498 186,284,704	19 20
275,157	268,958	36.2	71.3	972	676	30,771	41,113	32,639	1,096,988	1,175,113	761,499	35.7	28.6	1,043,936	21
355,055	330,499	19.9	8,464	7,991	6,478	1,610,044	1,516,596	1,226,830	39,368,664	35,860,824	20,103,528	24.5	23.6	37,300,110	22
6,105	14,008	17.8	590	262	344	16,350	7,624	13,704	403,984	162,342	232,566	24.7	21.3	386,631	23
849,380	3,320,813	18.6	45,601	45,724	48,868	2,977,529	2,964,812	3,792,110	64,517,078	56,479,215	51,137,256	21.7	19.0	60,789,772	
4,887	NA NA	25.9	103 2	105 1	193 12	6,005 60	3,300 15	4,115 245	211,237 320	91,765 150	110,943 4,767	35.2 5.3	27.8 10.0	192,764 280	25 26
15,520	22,244	26.3	677	1,235	742	32,413	12,202	12,814	1,197,050	222,056	236,781	36.9	18.2	1,157,056	27
17,126	69,538	8.6	708	718	2,064	177,277	95,304	461,746	2,349,549	491,168	4,464,902	13.3	5.2	2,187,110	28
3,450 408,273	11,159 520,296	29.0 17.3	1 251	334	392	30 22,493	19,193	24,263	900 323,160	147,679	311,025	30.0 14.4	7.7	850 298,695	29 30
827 997,732	810,009	15.9 13.0	167 35,567	56 39,442	33 39,856	9,832 4,311,421	3,466 4,463,716	2,101 6,2 63, 688	246,731 83, 490,616	58,989 65,337,630	23,343 78,659,212	25.1 19.4	17.0 14.6	239,860 78,493,224	
406,425	274,025	47.2	577	607	325	17,729	16,420	13,249	893,890	656,337	392,764	50.4	40.0	873,588	
1,264,814	1,719,819	29.4	5,766	6,217	7,135	678,810	686,207	736,856	24,475,932	19,820,005	15,809,700	36.1	28.9	23,627,140	
890	6,215	63.6	26	2,609	17	980	40	734	20,298	424	13,645	20.7	10.6	18,732	35
812,773	812,546	21.0	3,477		2,395	411,828	319,671	243,768	6,293,271	4,453,082	3,129,620	15.3	13.9	5,887,396	36
72,281	49,733	21.6	4,162	2,152	1,391	393,305	181,880	135,241	11,740,999	2,855,929	2,430,922	29.9	15.7	11,462,115	37
287,557	1,387,872	10.7	21,388	19,475	32,836	2,637,826	2,840,638	5,490,018	38,375,391	26,206,885	72,846,310	14.5	9.2	36,180,025	38
601,499	734,032	44.2	1,138	1,181	1,721	16,385	14,900	30,023	623,588	396,240	822,881	38.1	26.6	555,484	39
59,365	162,345	23.3	1,215	1,795	2,312	156,086	247,563	301,314	2,472,549	3,304,642	4,916,702	15.8	13.3	2,294,724	40
37,555	51,039	41.1	849	294	129	22,419	9,117	2,523	1,261,562	332,055	74,476	56.3	36.4	1,247,631	41
398,633	354,366	32.2	6,747	7,161	7,683	1,656,974	1,857,515	2,122,499	65,101,559	60,754,660	48,612,603	39.3	32.7	62,266,291	42
176,520 48,495	239,885 119,533	36.9 16.3	129 1,355	102 1,331	252 1,753	3,480 212,348	1,999 191,233	7,127 256, 5 78	75,793 4,677,874	32,542 2,169,178	162,151 5,024,241	21.8	16.3 11.3	68,137 4,408,230	43

Summary Table 5.–SPECIFIED CROPS IRRIGATED 1 -FARMS REPORTING, ACREAGE, AND

					Spring wh	eat harvested					Oe	ats harvested	
	State and item		Acres				duction shels)				Fe	urms reportin	e e
		1959	1954	1949	1959	1954	1949	Averag acr 1959	e per e	Bushels sold, 1959	1959	1954	1949
1 2 3	18 States: Total Irrigated Nonirrigated	10,817,386 499,312 10,318,074	13,696,123 487,650 13,208,473	19,034,223 590,080 18,444,143	167,735,881 23,787,808 143,948,073	156,103,242 19,628,302 136,474,940	202,816,550 19,174,076 183,642,474	15.5 47.6 14.0	11.4 40.3 10.3	151,284,752 22,429,417 128,855,335	207,864 19,539 188,325	300,222 25,344 274,878	290,649 29,419 261,230
4 5	Louisiana: Irrigated Nonirrigated	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	5 1,711	37 4,276	10 1,878
6 7	Hawaii:* Irrigated Nonirrigated	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA		NA NA	NA NA
8 9 10	17 Western Statea: Total Irrigated Nonirrigated	10,817,386 499,312 10,318,074	13,696,123 487,650 13,208,473	19,034,223 590,080 18,444,143	167,735,881 23,787,808 143,948,073	156,103,242 19,628,302 136,474,940	202,816,550 19,174,076 183,642,474	15.5 47.6 14.0	11.4 40.3 10.3	151,284,752 22,429,417 128,855,335	206,148 19,534 186,614	295,909 25,307 270,602	288,761 29,409 259,352
11 12	Arizona: Irrigated Nonirrigated	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	46 13	181 35	168 65
13 14	California: Irrigated Nonirrigated	NA NA	NA NA	NA NA	NA. NA.	NA NA	NA NA	NA NA	NA NA	NA NA	328 807	558 1,751	426 1, 589
15 16	Colorado: Irrigated Nonirrigated	14,590 14,276	16,998 29,569	46,407 127,312	502,486 245,955	462,536 317,116	1,352,350 2,122,252	34.4 17.2	27.2 10.7	431,728 220,940	4,037 1,106	3,682 1,515	5,995 3,642
17 18	Idabo: Irrigated Nonirrigated	280,370 132,040	249,274 259,606	234,656 273,077	15,310,024 3,040,851	11,691,016 5,651,827	9,229, 1 48 5,092,631	54.6 23.0	46.9 21.8	14,625,971 2,912,689	4,457 2,03 1	6,528 3,531	6,964 3,374
19 20	Kansas: Irrigated Nonirrigated	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	18 31,542	41 47,376	20 40,196
21 22	Montana: Irrigated Nonirrigated	68,741 2,019,358	78,290 2,634,359	121,227 3,267,093	2,123,485 28,320,397	1,971,668 35,135,386	2,819,708 28,831,703	30.9 14.0	25.2 13.3	1,955,977 25,913,437	2,779 4,978	3,621 6,217	3,591 4,420
23 24	Nebraska: Irrigated Nonirrigated	NA NA	NA NA	1,339 95,611	NA NA	NA NA	25,274 1,204,350	NA NA	NA NA	NA NA	912 37,454	977 58,136	678 59,106
25 26	Nevada: Irrigated Nonirrigated	12,558 1,361	6,709 536	12,757 309	345,101 20,848	194,079 4,117	366,227 4,707	27.5 15.3	28.9 7.7	281,028 20,409	99 3	232 8	266 17
27 28	New Mexico: Irrigated NonIrrigated	2,071 1,149	na na	8,409 10,245	45,817 20,995	NA NA	147,742 111,385	22.1 18.3	NA NA	35,063 18,301	331 144	472 168	716 643
29 30	North Dakota: Irrigated Nonirrigated	4,913 6,406,424	4,331 7,559,139	8,903 10,169,581	157,820 94,316,942	71,740 64,324,189	209,920 105,058,699	32.1 14.7	16.6	155,053 84,359,084	72 32,528	76 43,884	68 40,266
31 32	Oklahoma: Irrigated Nonirrigated	na Na	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	15 15,076	42 26,151	3 17,364
33 34	Oregon: Irrigated Nonirrigated	29,926 54,979	45,566 108,759	44,893 238,303	1,261,708 1,266,111	1,898,498 2,625,218	1,323,447 4,334,248	42.2 23.0	41.7 24.1	1,206,899 1,165,200	827 4,955	1,470 8,269	1,336 8,214
35 36	South Dakota: Irrigated Nonirrigated	2,036 1,459,984	1,435 2,272,979	5,358 3,677,715	35,616 10,890,909	15,499 20,596,964	95,156 27,224,149	17.5 7.5	10.8	32,998 8,750,504	148 32,858	116 50,366	197 47,869
37 38	Texas: Irrigated Nonirrigated	NA NA	NA NA	NA NA	NA NA	NA NA	NA. NA.	NA NA	NA :	NA NA	303 17,550	341 14,613	166 23,830
39 40	Utah: Irrigated Nonirrigated	37,476 16,332	45,420 35,171	60,421 24,606	1,819,775 389,088	1,679,959 672,842	2,225,188 576,058	48.6 23.8	37.0 19. 1	1,595,302 350,219	2,305 155	3,621 350	4,882 455
41 42	Washington: Irrigated Nonirrigated	38,130 193,684	28,891 274,356	23,406 491,948	1,912,818 5,194,360	1,380,895 6,866,880	802,114 8,189,038	50.2 26.8	47.8 25.0	1,872,415 4,938,044	870 4,419	1,250 7,182	1,381 6,674
43 44	Wyoming: Irrigated Nonirrigated	8,501 18,487	10,736 33,999	22,304 68,343	273,158 241,617	262,412 280,401	577,802 893,254	32.1 13.1	24.4 8.2	236,983 206,508	1,987 995	2,099 1,050	2,552 1,628

			Oats harvest	ed—Continued							Barle	y harvested			Ī
	Acres				uetion hels)			Bushels	Far	ms reporti	ng		Acres		
1959	1954	1949	1959	1954	1949	Averag ac	e per re	sold, 1959	1959	1954	1949	1959	1954	1949	
7,965,568	12,130,504	10,058,529	196,468,661	331,490,289	229,545,720	24.7	27.3	65,205,382	177,213	170,373	159,531	12,111,391	10,102,814	7,126,268	1 2
364,322	410,691	442,933	17,264,207	16,979,143	18,306,033	47.4	41.3	7,033,574	31,924	36,730	43,366	1,564,089	1,669,239	1,429,850	
7,601,246	11,719,813	9,615,596	179,204,454	314,511,146	211,239,687	23.6	26.8	58,171,808	145,289	133,643	116,165	10,547,302	8,433,575	5,696,418	
183 56,440	2,181 104,508	277 48 , 422	7,785 1,836,050	61,854 3,464,195	9,181 1,216,490	42.5 32.5	28.4 33.1	1,000 500,336	2	NA NA	NA NA	65	na Na	NA NA	. 4
:::	NA NA	NA NA	:::	NA NA	NA NA	:::	NA NA	:::	:::	NA NA	NA NA	:::	NA NA	NA NA	1
7,908,945	12,023,815	10,009,830	194,624,826	327,964,240	228,320,049	24.6	27.3	64,704,046	177,211	170,373	159,531	12,111,326	10,102,814	7,126,268	9
364,139	408,510	442,656	17,256,422	16,917,289	18,296,852	47.4	41.4	7,032,574	31,924	36,730	43,366	1,564,089	1,669,239	1,429,850	
7,544,806	11,615,305	9,567,174	177,368,404	311,046,951	210,023,197	23.5	26.8	57,671,472	145,287	133,643	116,165	10,547,237	8,433,575	5,696,418	
2,489 907	5,242 2,013	4,379 3,317	118,623 22,141	206,467 33,414	233,950 89,944	47.7 24.4	39.4 16.6	56,100 11,081	1,010	2,025 17	1,541 56	132,619 300	252,058 325	112,995 1,169	1:
20,112	22,514	15,459	872,854	859,558	507,339	43.4	38.2	696,797	3,974	4,700	3,303	753,780	786,114	491,330	
109,527	148,481	124,141	3,372,802	4,711,098	2,946,864	30.8	31.7	2,850,983	3,665	6,546	7,190	754,221	1,074,393	1,009,096	
69,339	57,686	95,023	3,003,508	1,967,323	3,948,809	43.3	34.1	1,002,059	5,908	5,603	10,338	148,831	126,838	269,126	1:
36,311	45,583	102,273	777,542	702,455	2,635,359	21.4	15.4	290,411	4,780	3,817	7,200	359,707	232,128	478,975	
56,489	71,412	73,183	3,134,598	3,836,242	3,425,594	55.5	53.7	1,180,468	4,287	5,821	6,047	93,084	108,184	96,045	1'
71,305	102,667	85,076	2,634,401	4,347,042	2,823,281	36.9	42.3	1,874,020	4,886	6,011	4,580	406,795	432,609	207,555	
281	665	323	6,150	18,657	10,119	21.9	28.1	1,170	157	47	93	6,210	1,187	2,881	19
666,872	1,020,919	779,785	16,074,018	33,340,653	15,135,317	24.1	32.7	3,671,428	26,519	16,580	8,005	867,452	423,769	194,287	
60,584	74,401	71,756	2,887,850	3,072,552	2,968,460	47.7	41.3	725,157	2,673	3,014	3,267	78,053	76,011	79,321	2:
171,068	177,882	100,904	4,197,103	4,156,134	2,247,191	24.5	23.4	1,096,762	12,825	12,932	8,020	1,664,948	1,096,407	395,111	
16,154	19,195	13,066	635,629	571,513	414,412	39.3	29.8	177,817	425	992	1,965	8,793	19,715	47,583	2:
1,242,905	2,183,729	2,084,231	30,360,545	60,328,960	41,876,438	24.4	27.6	6,501,104	10,512	6,350	8,179	298,819	191,428	251,468	
2,456	4,550	4,781	116,137	190,086	174,607	47.3	41.8	26,258	378	557	774	11,854	15,215	20,046	25
144	180	386	3,720	4,409	11,793	25.8	24.5	340	3	15	22	21	572	1,002	
6,218	5,747	8,838	252,408	187,629	248,657	40.6	32.6	131,501	814	838	874	24,691	16,544	9,875	2'
2,793	3,985	10,685	53,399	63,922	181,959	19.1	16.0	11,970	123	143	440	4,195	3,153	11,051	
1,365	1,380	1,051	71,172	48,006	46,015	52.1	34.8	20,006	59	58	54	1,197	1,024	850	
1,598,541	2,089,572	1,591,410	39,045,751	47,750,037	32,174,229	24.4	22.9	14,800,559	38,609	41,493	31,734	3,760,968	3,044,907	1,621,959	
234	918	33	7,130	37,555	1,450	30.5	40.9	2,135	19	16	2	292	444	97	
497,567	811,262	458,125	12,206,321	20,727,679	8,160,829	24.5	25.5	3,722,428	13,831	8,582	1,957	610,970	250,807	39,869	
36,017	39,876	30,791	91,967,095	91,493,040	91,070,519	54.6	37.4	1,578,641	1,734	2,350	2,463	69,588	88,124	89,758	3:
111,348	201,403	183,742	94,508,683	98,571,266	97,618,168	40.5	42.3	2,054,099	6,826	7,574	6,100	432,317	406,257	158,257	
3,372	2,876	3,475	114,116	70,239	118,641	33.8	24.4	22,944	84	84	230	2,353	2,105	6,842	35
2,015,166	3,893,133	2,823,961	39,637,027	103,988,455	62,459,906	19.7	26.7	9,963,783	9,823	10,837	22,849	426,467	470,843	1,049,453	
9,875	9,487	4,903	329,912	303,536	134,922	33.4	32.0	172,078	1,382	512	350	67,257	17,050	9,932	3'
851,118	732,533	1,042,225	18,337,971	14,847,450	25,512,708	21.5	20.3	7,547,902	4,812	3,565	4,228	199,620	112,759	106,232	
17,267	25,827	36,306	863,122	1,158,043	1,658,648	50.0	44.8	169,880	6,447	7,332	8,490	99,978	93,928	104,842	39
1,764	2,868	3,647	58,440	99,634	164,334	33.1	34.7	15,872	1,133	1,508	1,308	44,282	51,553	22,744	
13,076	18,787	21,921	9795,444	91,224,225	91,169,063	60.8	65.2	425,533	912	803	752	18,277	16,434	12,991	42
123,706	161,277	119,675	95,136,258	96,849,637	94,778,495	41.5	42.5	2,905,453	5,788	6,354	2,563	655,501	580,894	82,583	
48,811	47,947	57,368	2,080,674	1,672,618	2,165,647	42.6	34.9	644,030	1,661	1,978	2,823	47,232	48,264	75,336	43
43,764	37,818	53,591	942,282	524,706	1,206,382	21.5	13.9	353,277	1,139	1,319	1,734	60,654	60,771	65,607	

Summary Table 5.-SPECIFIED CROPS IRRIGATED1-FARMS REPORTING, ACREAGE, AND

			Barley h	arvested—Con	tinued		•		-			Rye ha:	rvested		<u>s</u>	
	State and item		Pro (bu	luction shels)			Bushels	Fart	as repor	ting		Acres			Production (bushels)	
		1959	1954	1949	Average acr		sold, 1959	1959	1954	1949	1959	1954	1949	1959	1954	1949
1 2 3	18 States: Total Irrigated Nonirrigated	335,108,529 79,952,435 255,156,094	281,164,430 77,364,746 203,799,684	167,781,359 59,361,968 108,419,391	27.7 51.1 24.2	27.8 46.3 24.2	243,633,866 60,087,417 183,546,449	22,688 676 22,012	19,727 129 19,598	22,278 440 21,838	903,175 14,003 889,172	735,862 1,920 733,942	785,111 7,645 777,466	12,788,689 333,790 12,454,899	9,756,160 24,761 9,731,399	7,971,071 103,465 7,867,606
4	Louisiana: Irrigated Nonirrigated	1,800	NA NA	NA NA	27.7	NA NA	1,100		NA NA	NA NA	58	NA NA	NA NA	2,310	NA NA	NA NA
6 7	Hawaii:* Irrigated Nonirrigated	:::	NA NA	NA NA	:::	NA NA		:::	NA NA	NA NA	:::	NA NA	NA NA	:::	NA NA	NA NA
8 9 10	17 Western States: Total Irrigated Nonirrigated	335,106,729 79,952,435 255,154,294	281,164,430 77,364,746 203,799,684	167,781,359 59,361,968 108,419,391	27.7 51.1 24.2	27.8 46.3 24.2	243,632,766 60,087,417 183,545,349	22,682 676 22,006	19,727 129 19,598	22,278 440 21,838	903,117 14,003 889,114	735,862 1,920 733,942	785,111 7,645 777,466	12,786,379 333,790 12,452,589	9,756,160 24,761 9,731,399	7,971,071 103,465 7,867,606
11 12	Arizona: Irrigated Nonirrigated	8,440,295 6,853	13,244,633 9,998	5,896,183 57,509	63.6 22.8	52.5 30.8	6,829,490 3,312	3 5	NA NA	NA NA	225 75	NA NA	NA NA	8,650 416	NA NA	NA NA
13 14	California: Irrigated Nomirrigated	42,221,481 25,272,054	40,013,659 33,665,256	21,912,529 29,256,094	56.0 33.5	50.9 31.3	39,053,752 21,854,194	39 79	NA NA	NA NA	847 4,080	NA NA	NA NA	10,787 45,556	NA NA	na na
15 16	Colorado: Irrigated Nonirrigated	6,466,131 8,182,988	4,076,605 2,523,732	10,731,308 10,376,6 8 9	43.4 22.7	32.1 10.9	3,109,683 5,184,444	115 1,119	71 790	88 602	1,770 67,384	1,007 42,717	1,103 21,510	35,855 893,150	14,403 229,264	18,195 176,671
17 18	Idaho: Irrigated Nonirrigated	4,221,443 11,215,426	4,517,876 13,216,978	3,899,017 5,699,152	45.4 27.6	41.8 30.7	2,085,716 8,549,527	114 81	NA NA	NA NA	2,443 4,741	NA NA	NA NA	105,451 96,961	NA.	NA NA
19 20	Kansas: Irrigated, Nonirrigated	193,838 22,458,471	23,125 9,504,260	57,512 3,384,544	31.2 25.9	19.5	132,459 11,066,355	23 5,228	19 4,766	4 1,834	752 138,905	379 81,916	67 26,659	13,741 2,053,227	4,584 947,862	1,247 257,756
21 22	Montana: Irrigated Nomirrigated	2,890,062 44,203,403	2,413,901 25,664,412	2,486,818 7,170,275	37.0 26.5	31.8 23.4	929,215 32,456,423	25 307	NA NA	11 170	432 19,173	NA NA	516 5,467	5,796 367,367	NA NA	9,944 42,065
23 24	Nebraska: Irrigated Nomirrigated	290,677 6,330,397	610,413 3,086,426	1,769,961 3,849,981	33.1	31.0 16.1	102,332 2,473,601	48 4,957	36 4,754	48 5,591	897 147,147	496 138,201	704 201,462	18,838 1,973,776	5,243 1,299,963	8,364 1,454,6 8 7
25 26	Nevada: Irrigated Nonirrigated	515,739 1,435	548,860 7,152	694,972 20,963	43.5 68.3	36.1 12.5	194,928 1,090	6 4	NA NA	NA NA	50 114	NA NA	NA NA	1,536 876	NA NA	NA NA
27 28	New Mexico: Irrigated Nonirrigated	948,953 79,987	619,188 42,367	273,121 163,863	38.4 19.1	37.4 13.4	595,771 49,124	53 59	NA NA	25 111	908 1,662	NA NA	743 4,143	20,536 23,738	NA NA	11,644 45,273
29 30	North Dakota: Irrigated Nonirrigated	41,493 71,247,019	23,985 63,265,220	23,550 23,912,255	34.7 18.9	23.4	17,958 53,967,926	1 3,647	1 5,756	4,750	12 192,575	13 304,516	213,591	170 2,414,861	124 4,745,215	2,425,408
31 32	Oklahoma: Irrigated Nonirrigated	7,560 13,429,816	14,590 4,713,563	2,450 688,336	25.9 22.0	32.9 18.8	3,856 7,458,737	2,367	NA NA	885	57 60,150	NA NA	15,431	600 662,440	NA NA	131,525
33 34	Oregon: Irrigated Nonirrigated	3,085,953 15,224,423	3,869,835 14.378,887	3,182,223 4,923,269	44.3 35.2	43.9 35.4	2,242,790 12,424,112	72 544	NA NA	100 483	2,003 16,437	NA NA	2,881 11,004	38,393 305,571	NA NA	31,173 111,417
35 36	South Dakota: Irrigated Nonirrigated	67,233 5,576,472	52,822 8,475,712	172,281 12,515,227	28.6 13.1	25.1 18.0	22,780 2,700,675	2,363	3,532	6,934	70 99,716	25 166, 592	100 263,033	1,100 1,236,401	407 2,509,095	700 3,071,816
37 38	Texas: Irrigated Nonirrigated	2,082,221 3,458,171	426,565 1,612,253	227,921 1,935,635	31.0 17.3	25.0 14.3	1,736,932 2,037,541	56 406	NA NA	NA NA	1,832 17,170	NA NA	NA NA	39,010 207,483	NA NA	NA. NA
39 40	Utah: Irrigated Nomirrigated	5,476,631 1,306,104	4,533,138 1,230,897	4,806,238 889,929	54.8 29.5	48.3 23.9	1,608,617 600,583	35 38	NA . NA	77 132	245 1,035	NA NA	686 3,240	3,513 8,364	NA NA	10,725 32,720
41 42	Washington: Irrigated Nonirrigated	974,029 25,867,553	724,230 21,419,032	532,337 2,072,445	53.3 39.5	44.1 36.9	598,186 22,190,753	67 705	NA NA	51 200	1,298 113,544	NA NA	431 6,597	27,171 2,082,709	NA. NA	6,694 64,397
43 44	Wyoming: Irrigated Nomirrigated	2,028,696 1,293,722	1,651,321 983,539	2,693,547 1,503,225	43.0 21.3	34.2 16.2	822,952 526,952	14 97	NA NA	35 146	162 5,206	NA NA	414 5,329	2,643 79,693	NA NA	4,779 53,871

See footnotes at end of table.

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Rye ha	rvested-	Continued						Flaxe	eed harveste	d					Ri	ce harve	sted	Г
Producti (bush		Bushels	Fart	ns report	ling		Acres				iuction shels)			Bushels	Far	ms repor	ting	1
Avera	age per	sold, 1959	1959	1954	1949	1959	1954	1949	1959	1954	1949	Avera ac	ge per re	sold, 1959	1959	1954	1949	
14.2 23.8 14.0	13.3 12.9 13.3	10,754,133 276,598 10,477,535	34,027 263 33,764	60,534 334 60,200	55,596 1,522 54,074	2,388,420 37,623 2,350,797	4,197,283 38,234 4,159,049	3,038,694 190,529 2,848,165	14,617,240 1,387,544 13,229,696	27,181,314 1,228,170 25,953,144	23,449,564 4,471,342 18,978,222	6.1 36.9 5.6	6.5 32.1 6.2	12,733,131 1,377,818 11,355,313	6,806 6,806	7,838 7,838	7,987 7,984 3	1 2 3
39.8	NA NA		:::	NA NA	NA NA	:::	NA NA	NA NA		NA NA	NA NA		NA NA		3,605	4,748	5,675 3	4 5
:::	NA NA	:::	:::	NA NA	NA NA	:::	NA NA	NA NA		NA N A	NA NA	:::	NA NA	:::	15	NA NA	NA NA	6 7
14.2 23.8 14.0	13.3 12.9 13.3	10,754,053 276,598 10,477,455	34,027 263 33,764	60,534 334 60,200	55,596 1,522 54,074	2,388,420 37,623 2,350,797	4,197,283 38,234 4,159,049	3,038,694 190,529 2,848,165	14,617,240 1,387,544 13,229,696	27,181,314 1,228,170 25,953,144	23,449,564 4,471,342 18,978,222	6.1 36.9 5.6	6.5 32.1 6.2	12,733,131 1,377,818 11,355,313	3,201 3,201	3,090 3,090	2,309 2,309 NA	8 9
38.4 5.5	NA. NA.	8,200 165	20	48	311	1,954	2,660	30,141	77,606	80,573	811,448	39.7	30.3	77,216		NA NA	NA NA	11 12
12.7	NA NA	7,099 31,662	206 16	265 26	858 58	34,268 3,654	34,610 6,175	147,477 7,813	1,289,962 34,608	1,139,186 95,135	3,525,922 84,693	37.6 9.5	32.9 15.4	1,281,169 32,967	1,365	1,360	942	13 14
20.3 13.3	14.3 5.4	28,046 753,732	:::	NA NA	NA NA	:::	NA NA	NA NA	:::	NA NA	NA NA	:::	NA NA	:::	:::	NA NA	NA NA	
43.2 20.5	NA NA	92,152 84,075		NA NA	NA NA	:::	NA NA	NA NA	:::	NA NA	NA NA	:::	NA NA	:::	:::	NA NA	NA NA	
18.3 14.8	12.1 11.6	8,664 1,626,854	:::	NA NA	1,492	:::	NA NA	30,448	:::	NA NA	192,270	:::	NA NA		:::	NA NA	NA NA	19
13.4 19.2	NA NA	3,185 324,108	30 241	NA NA	314 830	1,258 17,375	NA NA	11,708 47,427	18,085 105,895	NA NA	124,621 146,571	14.4	NA NA	17,582 95,684	:::	NA NA	NA NA	21 22
21.0 13.4	10.6 9.4	15,629 1,564,864	17	NA NA	NA NA	911	NA NA	NA NA	8,301	NA NA	NA NA	9.1	NA NA	7,265	:::	NA NA	NA NA	23 24
30.7 7.7	NA NA	1,302 460	:::	NA NA	NA NA	:::	NA NA	NA NA	:::	NA NA	NA NA		NA NA		:::	NA NA	NA NA	25 26
22.6 14.3	NA NA	17,749 19,855	:::	NA NA	NA NA	:::	NA NA	NA NA	:::	NA NA	NA NA		NA NA	:::	:::	na Na	NA NA	27 28
14.2 12.5	9.5 15.6	170 2,163,789	3 22,711	10 42,132	17 33,088	95 1,740,515	333 3,094,791	290 1,775,594	1,176 9,453,401	3,180 19,799,366	2,270 12,217,688	12.4 5.4	9.5 6.4	1,136 8,073,658	:::	NA NA	NA NA	29 30
10.5 11.0	NA NA	220 434,445	:::	NA NA	84	:::	NA NA	2,428		NA NA	12,732		NA NA	:::	:::	NA NA	NA NA	31 32
19.2 18.6	NA NA	30,134 247,034	2 2	NA NA	NA NA	13 95	NA NA	NA NA	308 1,407	NA NA	NA NA	23.7 14.8	NA NA	308 1,407	:::	NA NA	NA NA	33 34
15.7 12.4	16.3 15.1	900 1,034,695	1 10,154	3 16,257	14 14,670	10 547,973	95 949,808	348 675,884	90 3,211,147	990 5,486,812	2,650 4,331,467	9.0 5.9	10.4 5.8	90 2,744,602	:::	NA NA	NA NA	35 36
21.3	NA NA	35,574 167,870	1 623	8 1,785	8 3,852	25 40,274	536 108,275	565 308,571	317 414, 937	4,241 <i>5</i> 71,831	4,431 1,992,801	12.7 10.3	7.9 5.3	317 399,730	1,836	1,730	1,367	37 38
14.3 8.1	NA NA	1,279 4,864		NA NA	NA NA	:::	NA NA	NA NA	:::	NA NA	NA NA	:::	NA NA	:::	:::	NA NA	NA NA	39 40
20.9 18.3	NA NA	24,709 1,952,173	:::	NA NA	NA NA	:::	NA NA	NA NA	:::	NA NA	NA NA	:::	NA NA	:::		NA NA	NA NA	41 42
16.3 15.3	NA NA	1,586 66,810	:::	NA NA	NA NA	:::	NA NA	NA NA	:::	NA NA	NA NA	:::	na Na	:::	:::	NA NA	NA NA	43 44

Summary Table 5.-SPECIFIED CROPS IRRIGATED1-FARMS REPORTING, ACREAGE, AND

					Rice har	vested—Conti	nued				Dry	field a	und seed	beans har	vested fo	r beans
	State and item		Acres		_	Prod (bu	uction shels)			Bushels	Far	ns repor	ting		Acres	
		1959	1954	1949	1959	1954	1949	Averag	ge per cre	gold, 1959	1959	1954	1949	1959	1954	1949
1 2 3	18 States: Total Irrigated Nonirrigated	1,198,088	1,747,667 1,747,667	1,408,052 1,408,039 13	89,791,855 89,791,855	100,350,168 100,350,168	69,542,371 69,541,899 472	74.9 74.9	57.4 57.4	89,405,101 89,405,101	15,280 13,996 1,284	16,526 14,358 2,168	23,895 18,452 5,443	830,537 654,971 175,566	913,163 673,371 239,792	1,107,204 671,408 435,796
4 5	Louisiana: Irrigated Nonirrigated	466,516 	665,607	562,496 13	30,147,451	36,302,000	23,600,671	64.6	54.5	29,755,886	:::	2	:::	:::		
6 7	Hawaii:* Irrigated Nonirrigated	75	NA NA	NA NA	6,387	NA NA	NA NA	85.2	NA NA	5,869		NA NA	NA NA	:::	NA NA	NA NA
8 9 10	17 Western States: Total Irrigated Nonirrigated	731,572 731,572	1,082,060 1,082,060	845,543 845,543	59,644,404 59,644,404	64,048,168 64,048,168	45,941,228 45,941,228	81.5 81.5	59.2 59.2	58,649,215 58,649,215 	15,280 13,996 1,284	16,522 14,358 2,164	23,895 18,452 5,443	830,537 654,971 175,566	913,155 673,371 239,784	1,107,204 671,408 435,796
11 12	Arizona: Irrigated Nonirrigated	:::	NA NA	NA NA	:::	NA NA	NA NA		NA NA	:::	43 19	NA NA	281 100	823 2,441	4,857 5,122	3,701 7,471
13 14	California: Irrigated Nonirrigated	302,132	474,421	303,747	29,403,900	28,121,529	22,021,856	97.3	59.3	29,003,111	2,436 215	NA NA	2,239 679	219,833 27,261	240,249 45,444	235,197 87,671
15 16	Colorado: Irrigated Nonirrigated	:::	NA NA	NA NA	:::	NA NA	NA NA	:::	NA NA	:::	2,745 588	3,580 980	4,226 1,841	76,473 121,746	97,124 134,816	100,761 181,215
17 18	Idaho: Irrigated Nomirrigated	:::	NA NA	NA NA	:::	NA NA	NA NA	:::	NA NA	:::	3,722 60	5,088 218	5,210 208	130,227 3,385	139,228 10,265	133,296 10,293
19 20	Kansaa: Irrigated Nonirrigated		NA NA	NA NA	:::	NA NA	NA NA		NA NA	:::	61 19	2 14	3 12	4,868 1,394	135 155	147 929
21 22	Montana: Irrigated Nonirrigated	:::	NA NA	NA NA	:::	NA NA	NA NA		NA NA	:::	435 7	545 29	586 42	12,792 121	14,101 545	16,290 1,031
23 24	Nebraska: Irrigated Nonirrigated		NA NA	NA NA		NA NA	NA NA		NA NA	:::	1,671 78	1,882 151	2,176 161	67,249 2,916	67,597 4,520	79,692 4,594
25 26	Newada: Irrigated Nonirrigated	:::	NA NA	NA NA	:::	NA NA	NA NA		NA NA	:::					32	
27 28	New Mexico: Irrigated Nonirrigated	:::	NA NA	NA NA	:::	NA NA	NA NA	:::	NA NA	:::	284 163	756 362	1,103 1,992	7,373 6,669	17,872 25,089	14,450 125,916
29 30	North Dakota: Irrigated Nonirrigated	:::	NA NA	NA NA	:::	NA NA	NA NA	•••	NA NA	:::	57 14	49 21	6	1,944	1,568 355	159 106
31 32	Oklahoma: Irrigated Nonirrigated	:::	NA NA	NA NA		NA NA	NA NA	:::	NA NA	:::		100		 61	1,551	586
33 34	Oregon: Irrigated Nonirrigated	:::	NA NA	NA NA	:::	NA NA	NA NA	:::	NA NA	:::	14	125 5	122 28	390	2,404 76	2,037 186
35 36	South Dakota: Irrigated Nonirrigated	:::	NA NA	NA NA	:::	NA NA	NA NA	:::	NA NA		42 5	36 14	28 4	1,406 69	910 151	789 84
37 38	Texas: Irrigated Nonirrigated	429,440	607,639	541,796	30,240,504	35,926,639	23,919,372	70.4	59.1	29,646,104	174 42	41 119	7 100	7,084 634	906 994	44 514
39 40	Utah: Irrigated Nonirrigated	:::	NA NA	NA NA	:::	NA NA	NA NA	:::	NA NA		13 33	59 67	136 111	66 4,967	441 8,129	862 12,257
41 42	Washington: Irrigated Nonirrigated	:::	NA NA	NA NA	:::	NA NA	NA NA	:::	NA NA		925 17	688 21	279 87	54,003 648	33,893 811	6,139 761
43 44	Wyoming: Irrigated Nonirrigated	:::	NA NA	NA NA	:::	NA. NA	NA NA	:::	NA NA	:::	1,373	1,504 63	2,049 62	70,439 2,526	52,054 1,761	77,843 2,182

See footnotes at end of table.

Dry field a	nd seed beans	harvested for	beans—Co	ntinued				Dry	field and	seed peas	harvested for	r peas				
	Prod (100-po	uction und bags)			Fa	rms report	ing		Acres				duction usbels)			
1959	1954	1949 -	Average	per acre	1959	1954	1949	1959	1954	1949	1959	1954	1949	Average	per acre	
12,148,804 11,487,993 660,811	12,578,066 11,374,196 1,203,870	12,707,526 10,513,553 2,193,973	14.6 17.5 3.8	13.8 16.9 5.0	3,620 1,390 2,230	3,857 1,732 2,125	5,279 2,463 2,816	336,419 47,388 289,031	249,968 42,583 207,385	344,612 51,502 293,110	8,178,052 1,530,259 6,647,793	5,527,903 1,022,825 4,505,078	4,927,041 1,191,885 3,735,156	24.3 32.3 23.0	22.1 24.0 21.5	
:::	85		:::	10.6	:::	···i	_i	:::	20			250	50	:::	12.5	
:::	NA NA	NA NA	:::	NA NA	:::	NA NA	NA NA	:::	:::	:::			:::	:::		
12,148,804 11,487,993 660,811	12,577,981 11,374,196 1,203,785	12,707,526 10,513,553 2,193,973	14.6 17.5 3.8	13.8 16.9 5.0	3,620 1,390 2,230	3,856 1,732 2,124	5,278 2,463 2,815	336,419 47,388 289,031	249,948 42,583 207,365	344,605 51,502 293,103	8,178,052 1,530.259 6,647,793	5,527,653 1,022,825 4,504,828	4,926,991 1,191,885 3,735,106	24.3 32.3 23.0	22.3 24.0 21.5	
7,431 4,489	38,573 26,755	31,375 23,719	9.0 1.8	7.9 5.2				120	15	16	2,777	600	18	23.1	40.0	1
3,816,923 265,123	4,297,753 471,760	3,930,923 997,509	17.4 9.7	17.9 10.4	45 7	51 16	179 121	2,628 431	4,038 877	8,667 6,967	100,342 6,993	76,618 12,978	213,885 86,330	38.2 16.2	19.0 14.8	
1,363,298 282,485	1,521,507 434,166	1,539,929 629,618	17.8 2.3	15.7 3.2	187 6	227 20	556 49	6,273 195	5,585 361	14,628 860	98,694 951	75,487 4,218	272,99 2 13,336	15.7 4.9	13.5	
2,570,727 21,623	2,535,702 101,980	2,310,002 54,968	19.7 6.4	18.2 9.9	652 879	9 7 3 830	1,160 721	20,395 104,756	19,420 81,063	20,420 67,851	595,90 7 2,323,237	451,011 1,796,524	547,392 1,027,635	29.2 22.2	23.2	1
38,445 5,249	707 356	1,132 2,826	7.9 3.8	5.2 2.3	:::					 43			883			1 2
165,942 1,597	224,241 5,841	208,201 13,004	13.0 13.2	15.9 10.7	26 17	105 64	138 89	823 308	2,390 1,717	2,949 2,347	20,973 2,827	48,705 34,446	56,032 32,115	25.5 9.2	20.4 20.1	
1,232,497 22,366	1,042,851 43,689	1,161,201 56,651	18.3 7.7	15.1 9.7	:::	:::	2	:::		 31			374	:::		2 2
30	472		30.0	14.8				160	:::		2,783	:::	:::	17.4	:::	2:
63,461 19,892	165,081 45,799	122,300 327,576	8.6 3.0	9.2 1.8	9	29 4	237 132	378 8	64 5	872 309	2,3 3 9 240	684 23	7,844 1,644	6.2 30.0	10.7 4.6	2'
21,210 4,961	19,505 4,049	872 483	10.9 6.8	12.4	138	98	107	5,287	2,901	2,890	115,803	38,341	36,710	21.9	13.2	31
122	4,649	2,375	2.0	3.0	:::	_i	:::	:::	20			48	:::	:::	2.4	3:
3,941	38,042 252	24,311 1,217	10.1	15.8 3.3	14 127	33 193	43 273	374 15,210	837 7,509	1,135 18,218	8,723 351,279	20,056 129,289	23,127 216,213	23.3 23.1	24.0 17.2	
17,865 191	9,879 880	8,482 750	12.7 2.8	10.5 5.8	:::	:::		:::	:::	30	:::	:::	298	:::	:::	35
54,849 2,073	7,784 4,009	520 1,597	7.7 3.3	8.6 4.0	1 9	1 5		8 117	12 82		53 1,124	180 466	33	6.6 9.6	15.0 5.7	3°. 38
1,011 9,113	3,666 31,293	9,707 48,201	15.3 1.8	8.3 3.8	2	19 2	3 1	11 6	88 5	5 1	600	1,622 110	123 70	54.5 5.5	18.4 22.0	39
960,213 9,067	697,610 14,576	78,975 15,128	17.8 14.0	20.6 18.0	431 1,041	186 890	73 1,306	15,754 162,713	6,211 112,814	1,589 193,463	688,239 3,845,306	242,881 2,488,293	45,499 2,318,118	43.7 23.6	39.1 22.1	4:
1,170,150 12,460	770,823 13,731	1,085,620 18,351	16.6 4.9	14.8 7.8	20	107 1	68 4	464	3,923 11	1,221 84	8,829	104,981 92	24,973 1,347	19.0	26.8 8.4	4:

Summary Table 5.-SPECIFIED CROPS IRRIGATED 1-FARMS REPORTING, ACREAGE, AND

		Land from	n which hay	was cut ²				Alfalfa an	d alfalfa mi	xtures cut	for hay and	for de hy d	rating			
	State and Item		Acres		Far	ms report	ing		Acres				uction ons)			Tons
		1959	1954	1949	1959	1954	1949	1959	1954	1949	1959	1954	1949	Aver per 1959	age acre 1954	sold, 1959
1 2 3	18 States: Total Irrigated Nonirrigated	28,193,290 6,796,002 21,397,288	30,500,500 6,699,325 23,801,175	27,063,152 6,167,986 20,895,166	305,372 94,047 211,325	376,852 114,321 262,531	326,391 110,439 215,952	11,956,343 4,343,682 7,612,661	12,586,712 4,375,629 8,211,083	3,433,593	15,103,044	26,889,172 14,058,013 12,831,159	10,510,970	2.2 3.5 1.5	2.1 3.2 1.6	9,069,707 7,111,903 1,957,804
4 5	Louisiana: Irrigated Nonirrigated	2,999 361,167	5,084 364,431	1,041 257,646	4 351	NA NA	5 775	70 11,761	NA NA	17 20,721	206 26,813	NA NA	35 38,544	2.9 2.3	na na	7,990
6 7	Hawaii:* Irrigated Nonirrigated	1,899	NA NA	NA NA		NA NA	NA NA		NA NA	NA NA	:::	NA NA	NA NA	:::	NA NA	
8 9 10	17 Western States: Total Irrigated Nonirrigated	27,829,124 6,793,003 21,036,121	6,694,241	6,166,945	305,017 94,043 210,974	376,852 114,321 262,531	325,611 110,434 215,177	11,944,512 4,343,612 7,600,900	12,586,712 4,375,629 8,211,083	3,433,576	15,102,838	26,889,172 14,058,013 12,831,159	10,510,935	2.2 3.5 1.5	2.1 3.2 1.6	9,061,717 7,111,903 1,949,814
11 12	Arizona: Irrigated Nonirrigated	185,949 4,203	212,198 5,273	164,038 4,825	1,787 23	2,309 35	2,513 91	167,989 375	185,226 1,287	144,591 1,864	784,638 656	562,675 938	466,546 3,648	4.7	3.0 0.7	519,319 164
13 14	California: Irrigated Nonirrigated	1,242,035 390,565	1,222,134 507,854	1,025,371 646,870	12,767 797	18,001 1,875	18,264 2,000	957,499 58,017	974,408 82,316	817,403 75,441	5,241,173 112,337	4,847,108 236,146	3,739,793 218,723	5.5	5.0 2.9	3,837,104 41,293
15 16	Colorado: Irrigated Nonirrigated	974,129 293,348	893,660 417,072	1,050,271 317,348	13,335 2,464	15,320 4,230	17,249 3,316	543,429 110,769	537,653 193,917	533,068 95,815	1,401,165 173,463	1,242,216 255,990	1,228,500 176,818	2.6 1.6	2.3 1.3	473,099 38,647
17 18	Idaho: Irrigated Nonirrigated	803,170 359,299	766,424 346,955	697,915 333,860	17,741 5,142	20,315 6,516	20,250 6,489	656,836 242,504	626,308 216,642	520,211 170,570	2,125,633 389,469	2,049,237 338,084	1,606,970 274,086	3.2 1.6	3.3 1.6	558,943 74,162
19 20	Kansas: Irrigated Nonirrigated	36,897 1,820,605	55,199 2,445,441	14,898 1,960,344	1,057 43,996	1,201 56,766	427 56,354	34,648 985,589	51,093 1,355,779	13,858 996,320	122,963 2,182,304	161,079 2,135,623	33,236 1,976,624	3.5 2.2	3.2 1.6	48,206 347,257
21 22	Montana: Irrigated Nonirrigated	945,636 1,160,995	937,827 1,339,678	751,016 1,127,198	7,194 7,046	8,136 7,793	6,621 7,089	455,545 486,550	451,100 442,200	276,427 301,713	996,287 652,306	960,673 543,944	504,095 336,317	2.2	2.1 1.2	177,433 67,970
23 24	Nebraska: Irrigated Nonirrigated	144,690 4,544,112	168,000 5,255,488	107,456 4,591,957	4,363 54,950	4,461 65,577	3,337 59,416	125,367 1,612,665	147,713 1,831,835	87,031 1,139,197	383,027 3,447,586	435,931 3,355,545	229,286 2,192,518	3.1 2.1	3.0 1.8	97,228 715,972
25 26	Nevada: Irrigated Nonirrigated	247,110 42,950	298,697 20,536	360,026 9,471	1,439 26	1,725 37	1,820 32	118,520 2,078	113,554 2,565	98,964 1,429	346,794 3,082	321,723 3,044	276,569 4,412	2.9 1.5	2.8	109,691 1,207
27 28	New Mexico: Irrigated Nonirrigated	159,684 33,933	167,788 44,839	134,025 51,518	4,743 281	6,694 580	6,740 779	134,251 5,757	147,850 8,512	109,549 10,406	497,923 6,123	440,727 13,329	308,521 17,781	3.7 1.1	3.0 1.6	295,608 2,124
29 30	North Dakota: Irrigated Nonirrigated	13,632 3,818,936	11,125 3,543,793	6,969 3,398,039	222 27,972	221 30,898	169 12,766	10,862 1,131,809	10,896 1,070,013	3,991 281,585	27,966 1,050,468	27,105 1,672,123	10,941 367,922	2.6	2.5	10,415 96,957
31 32	Oklahoma: Irrigated Nonirrigated	13,346 1,148,102	15,402 1,416,548	3,450 1,151,590	343 11,369	388 21,407	73 17,700	12,295 308,188	14,521 579,000	3,365 375,017	35,499 677,283	35,483 758,860	6,884 758,442	2.9	2.4	12,018 205,584
33 34	Oregon: Irrigated Nonirrigated	512,112 419,610	501,044 502,375	467,104 480,422	5,603 2,691	6,745 3,144	5,779 3,844	220,322 87,076	210,145 76,954	150,849 63,209	676,421 180,019	647,251 152,946	421,670 122,747	3.1	3.1	232,724 39,971
35 36	South Dakota: Irrigated Nonirrigated	39,996 4,619,392	42,228 5,158,960	21,710 4,351,671	495 40,556	580 43,791	392 27,881	35,708 2,023,845	38,517 1,709,148	15,466 558,329	81,093 1,765,373	82,288 2,485,064	30,401 727,089	2.3	2.1	16,246 128,022
37 38	Texas: Irrigated Nonirrigated	74,668 1,368,129	135,686 1,373,289	70,812 1,148,111	1,604 4,031	3,159 7,928	1,856 5,252	52,200 112,080	110,451 214,798	59,984 136,662	178,060 195,854	346,307 282,171	197,228 264,978	3.4 1.7	3.1 1.3	101,681 61,924
39 40	Utah: Irrigated Nonirrigated	441,020 90,469	442,213 109,896	431,267 87,462	11,089 1,514	13,652 1,889	14,598 1,932	341,803 69,302	335,968 74,519	301,331 58,875	961,250 114,917	901,272 108,128	784,301 120,856	2.8	2.7	180,430 22,868
41 42	Washington: Irrigated Nonirrigated	232,188 624,222	189,266 644,026	145,277 633,067	6,069 6,581	6,838 8,398	5,979 8,660	172,513 230,659	142,884 232,924	98,127 186,110	623,421 369 ,83 5	462,054 378,534	310,881 270,221	3.6 1.6	3.2	321,178 88,944
43 44	Wyoming: Irrigated Nonirrigated	726,741 297,251	635,350 304,721	715,340 343,767	4,192 1,535	4,576 1,667	4,367 1,576	303,825 133,637	277,342 118,674	199,361 75,223	619,525 133,102	534,884 110,690	355,113 88,818	2.0	1.9	120,580 16,748

See footnotes at end of table.

			Clover,	timothy, an	d mixtures	of clover s	nd grasses	cut for hay					Ont	s, whest	, barley, ry grains out f	e, or other or hay		Γ
Farm	s report	ing		Acres				oduction (tons)			Tons	Farm	s report	ing		Acres		
1959	1954	1949	1959	1954	1949	1959	1954	1949	Average 1959	per scre	801d, 1959	1959	1954	1949 ⁸	1959	1954	1949 ⁸	
48,205 13,344 34,861	63,016 12,765 50,251	56,168 13,636 42,532	1,699,501 821,282 878,219	1,748,210 695,242 1,052,968	1,439,712 657,447 782,265	2,478,596 1,231,371 1,247,225	2,380,976 961,624 1,419,352	2,010,492 947,499 1,062,993	1.5 1.5 1.4	1.4 1.4 1.3	327,289 181,439 145,850	78,266 10,298 67,968	98,504 11,878 86,626	82,346 12,418 69,928	2,423,603 228,674 2,194,929	2,193,852 219,564 1,974,288	2,012,971 218,924 1,794,047	1 2 3
22 2,108	38 3,144	7 1,194	269 46,075	986 74,745	69 24,163	419 65,799	1,552 101,103	89 30,565	1.6	1.6 1.4	75 4,158	10 1,349	19 3,907	3 685	493 23,025	558 54,941	154 8,495	4 5
:::	NA NA	NA NA		NA NA	NA NA		NA NA	NA NA	:::	NA NA	:::		NA NA	NA NA	:::	NA NA	NA NA	6 7
46,075 13,322 32,753	59,834 12,727 47,107	54,967 13,629 41,338	1,653,157 821,013 832,144	1,672,479 694,256 978,223	1,415,480 657,378 758,102	2,412,378 1,230,952 1,181,426	2,278,321 960,072 1,318,249	1,979,838 947,410 1,032,428	1.5 1.5 1.4	1.4 1.4 1.3	323,056 181,364 141,692	76,907 10,288 66,619	94,578 11,859 82,719	81,658 12,415 69,243	2,400,085 228,181 2,171,904	2,138,353 219,006 1,919,347	2,004,322 218,770 1,785,552	8 9 10
:::	33 7	32 29	:::	554 168	644 378	:::	985 110	900 444	:::	1.8	:::	284 55	416 71	561 116	8,825 1,781	13,902 2,300	14,999 3,260	11 12
1,778	1,687 846	884 616	103,423 32,628	74,188 27,138	39,255 15,234	190,557 51,670	121,753 46,725	64,610 26,700	1.8 1.6	1.6	43,685 5,728	3,548 4,246	3,865 7,354	3,982 10,864	103,733 226,827	90,434 305,713	85,115 457,801	13 14
1,845 462	1,651 501	1,811 573	184,912 24,587	164,028 31,804	139,985 26,555	273,216 28,913	208,900 28,261	215,690 36,165	1.5	1.3	37,116 3,154	1,163 1,306	1,329 1,608	1,179 1,395	19,568 34,274	22,639 57,300	17,011 32,322	15 16
2,222 1,678	1,458 1,878	2,818 2,659	70,009 53,077	46,547 49,341	71,798 65,478	102,061 75,657	70,411 66,296	105,478 83,359	1.5	1.5	14,010 15,242	637 938	833 1,738	1,016	7,709 17,063	9,850 28,345	11,186 33,847	17 18
9 3,949	15 5,686	9 6,782	294 64,366	304 95,900	128 103,495	601 95,285	432 117,987	132 127,350	2.0 1.5	1.4	56 5,943	16 3,467	18 9,631	3 2,412	423 47,209	320 126,001	65 30,491	19 20
1,716 1,488	1,968 1,740	1,861 1,941	167,369 85,680	151,499 87,288	138,819 88,003	229,149 96,748	195,138 89,198	173,114 87,931	1.4	1.3	22,326 10,092	800 4,954	886 5,951	811 5,528	18,544 209,487	16,597 200,865	14,593 204,228	21 22
30 3,005	41 8,160	28 4,053	997 96,722	1,116 167,823	532 85,393	1,453 114,813	1,340 187,193	1,074 90,513	1.5	1.2	126 8,138	198 2,903	256 5,113	66 2,811	3,070 71,367	4,849 120,950	1,530 61,500	23 24
245 18	209 6	338 5	35,311 10,197	30,636 680	48,043 607	42,479 5,401	35,753 600	61,760 710	1.2	1.2	5,312 84	279 21	311 14	371 29	7,628 883	6,177 317	9,488 1,224	25 26
417 182	365 179	687 406	7,741 2,457	6,312 2,805	8,252 6,122	10,321 2,641	7,196 2,596	11,289 7,649	1.3	1.1	1,625 487	485 347	742 472	719 870	8,471 6,390	6,700 7,824	7,184 12,239	27 28
1,545	6 3,225	2 1,099	15 50,961	89 90,541	26 22,954	30 45,598	139 121,541	32 25,175	2.0	1.6	1,920	16 12,758	6,602	10,598	517 512,441	69 146,942	161 311,223	29 30
2 679	4 614	755	31 15,684	95 12,603	12,023	41 20,411	192 10,740	14,367	1.3	2.0	1,970	15 6,663	15 12,991	3,793	412 134,289	428 219,179	56,791	31 32
2,194 5,220	2,316 6,031	2,052 5,472	73,118 95,322	61,589 88,360	58,051 66,750	132,646 174,251	113,185 164,614	94,066 115,514	1.8	1.8	19,706 32,609	922 3,423	1,057 5,079	1,373 8,361	19,962 83,458	17,152 125,923	28,693 154,295	33 34
6 966	7 2,496	15 1,254	625 33,120	372 62,568	832 31,731	835 26,491	289 67,409	1,155 30,157	1.3	0.8	195 1,119	61 10,654	36 3,067	31 3,916	1,531 478,652	675 93,718	546 144,995	35 36
46 2,339	81 2,657	22 2,222	1,728 63,539	2,148 64,084	310 47,946	4,491 75,896	3,437 53,371	527 52,380	2.6 1.2	1.6	2,596 7,985	111	219 15,896	71 5,389	2,811 243,939	6,747 3 3 6,722	2,865 106,513	37 38
1,076 142	1,214 170	1,370 172	38,100 4,269	32,703 4,844	33,321 2,534	60,202 6,283	47,663 7,049	52,486 4,743	1.6	1.5 1.5	3,773 656	566 209	692 288	759 287	5,689 3,988	5,142 5,735	6,571 5,696	39 40
992 10,174	911 12,689	827 13,012	30,860 186,421	22,607 174,549	29,748 166,094	68,084 349,621	52,425 339,883	58,883 310,029	2.2	2.3 1.9	20,336 45,747	765 3,575	720 5,515	1,046 9,628	8,901 60,532	6,844 87,186	9,479 130,669	
743 206	761 222	873 288	106,480 13,114	99,469 17,727	87,634 16,805	114,786 11,747	100,834 14,676	106,214 19,242	1.1	1.0	10,502 818	422 997	458 1,329	416 1,202	10,387 39,324	10,481 54,327	9,284 38,458	43 44

Summary Table 5.-SPECIFIED CROPS IRRIGATED -FARMS REPORTING, ACREAGE, AND

		Oats, w	heat, barle	y, rye, or or hay—Con	other s	mall gr	ains					Wild hay	cut			
	State and item			Production (tons)				Far	ms report	ing		Acres			Production (tons)	
		1959	1954	1949	Averag- ac 1959	e per re 1954	Tons sold, 1959	1959	1954	1949	1959	1954	1949	1959	1954	1949
1 2 3	18 Statea: Total Irrigated Nonirrigated	2,258,400 402,247 1,856,153	2,298,808 359,532 1,939,276	2,069,704 330,236 1,739,468	0.9 1.8 0.8	1.0 1.6 1.0	271,912 96,977 174,935	140,021 6,576 133,445	164,792 7,527 157,265	189,102 9,493 179,609	9,663,410 1,209,612 8,453,798	11,412,498 1,220,588 10,191,910	12,800,279 1,653,751 11,146,528	7,712,653 1,203,257 6,509,396	8,515,822 1,147,711 7,368,111	10,024,299 1,631,586 8,392,713
4 5	Louisiana; Irrigated Nonirrigated	730 29,217	463 55 ,7 03	304 8 ,7 90	1.5	0.8	777	:::	NA NA	NA NA	:::	NA NA	NA NA	:::	NA NA	NA NA
6 7	Hawaii:* Irrigated Nomirrigated	:::	NA NA	NA NA	:::	NA NA	:::	:::	NA NA	NA NA	:::	NA NA	NA NA	:::	NA NA	NA NA
8 9 10	17 Western States: Total Irrigated Nomirrigated	2,228,453 401,517 1,826,936	2,242,642 359,069 1,883,573	2,060,610 329,932 1,730,678	0.9 1.8 0.8	1.0 1.6 1.0	271,135 96,977 174,158	140,021 6,576 133,445	164,792 7,527 15 7, 265	189,102 9,493 179,609	9,663,410 1,209,612 8,453,798	11,412,498 1,220,588 10,191,910	12,800,279 1,653,751 11,146,528	7,712,653 1,203,257 6,509,396	8,515,822 1,147,711 7,368,111	10,024,299 1,631,586 8,392,713
11 12	Arizona: Irrigated Nonirrigated	15,694 1,507	27,072 1,857	24,531 3,719	1.8	1.9	5,108 118	44 21	29 23	43 42	1,147 754	768 1,059	1,012 1,457	1,612 675	991 633	1,307 1,471
13 14	California: Irrigated Nonirrigated	209,164 319,989	174,035 437,370	139,754 556,881	2.0 1.4	1.9	67,630 103,339	370 710	370 9 7 6	437 1,203	42,026 55,820	53,850 48,314	58,605 59,460	51,282 57,968	64,254 51,776	66,767 65,183
15 16	Colorado: Irrigated Nomirrigated	30,103 29,992	29,475 33,970	23,781 29,780	1.5	1.3 0.6	2,789 1,606	960 1,077	870 926	1,561 2,140	208,547 7 9,028	158,329 85,510	338,213 119,894	201,106 71,681	139,152 43,977	349,956 118,083
17 18	Idaho: Irrigated Nomirrigated	12,786 20,768	15,126 38,182	17,452 39,490	1.7	1.5	850 2,649	697 658	891 834	1,013 1,183	60,527 37,055	78,777 41,870	83,383 59,216	73,492 41,599	89,906 41,791	95,640 60,142
19 20	Kansas: Irrigated Nonirrigated	531 55,678	382 139,290	67 34,344	1.3	1.2	17 1,969	7 23,277	4 27,563	5 28,633	637 594,300	2,191 700,184	639 630,958	1,230 749,636	1,829 594,231	667 722,526
21 22	Montana: Irrigated Nonirrigated	26,461 176,399	21,667 175,579	18,496 119,956	1.4	1.3 0.9	1,457 5,010	1,191 3,846	1,370 5,548	1,488 5,876	281,623 255,976	289,258 416,144	287,618 425,663	274,999 192,502	268,516 302,867	255,831 284,299
23 24	Nebraska: Irrigated Nomirrigated	4,200 66,556	5,125 95,832	1,306 53,127	1.4	1.1	351 2,439	151 20,560	127 25,805	165 30,090	12,876 2,670,426	10,362 2,961,845	16,985 3,122,943	12,723 1,934,860	9,077 1,996,819	16,398 2,300,436
25 26	Nevada: Irrigated Nonirrigated	11,688 841	8,924 317	12,985 1,066	1.5	1.4	4,032 206	313 63	467 60	598 45	81,738 28,755	146,284 16,658	196,136 4,529	76,513 19,941	123,724 11,861	192,933 4,415
27 28	New Mexico: Irrigated Nomirrigated	10,816 5,745	9,315 6,080	9,001 13,516	1.3 0.9	1.4	3,031 864	134 142	218 179	210 334	5,888 9,716	3,385 12,730	6,202 14,472	5,902 7,802	3,264 6,518	6,469 10,787
29 30	North Dakota: Irrigated Nonirrigated	548 317,663	66 130,707	197 235,332	1.1 0.6	1.0	75 9,188	7 29,852	35,3 7 0	7 40 ,7 54	1,435 1,923,308	25 1,971,119	2,597 2,457,509	2,185 1,370,209	72 1,687,956	3,716 1,973,616
31 32	Oklahoma: Irrigated Nomirrigated	502 136,348	562 198,600	55,167	1.2	1.3	7 7,099	5 9,810	10,796	1 13,161	97 365,938	383,411	10 405,124	139 470,515	299,402	10 472,700
33 34	Oregon: Irrigated Nonirrigated	31,926 108,828	26,068 157,215	40,393 186,958	1.6	1.5	5,874 11,066	672 1,853	859 2,192	865 3,214	171,101 66,834	185,875 91,0 77	199,147 90,609	183,101 74,834	204,145 96,355	209,151 97,731
35 36	South Dakota: Irrigated Nomirrigated	1,764 251,423	550 7 3,627	621 90,510	1.2 0.5	0.8	191 6,2 7 8	22 25 , 25 7	40 34, 282	53 36,645	1,612 1,957,235	1,614 3,140,028	4,242 3,361,941	1,076 1,040,314	1,491 1,967,118	3,627 1,900,756
37 38	Texas: Irrigated Nomirrigated	3,970 21 7,3 82	8,312 239,783	4,473 95,591	1.4	1.2	552 15,435	50 13,249	30 8,519	17 9,770	1,977 304,071	1,068 181,768	440 177,666	1,881 376,022	1,266 147,636	419 179,448
39 40	Utah: Irrigated Nonirrigated	9,686 3,707	7,940 5,028	10,390 5,977	1.7	1.5	519 399	965 331	1,270 475	1,559 545	52,161 11,346	62,225 21,894	79,209 20,532	62,985 13,711	67,091 20,820	96,058 27,061
41 42	Washington: Irrigated Nomirrigated	16,797 82,237	11,845 118,694	15,153 176,238	1.9 1.4	1.7	3,571 5,096	95 2,153	126 3,018	162 4,497	3,687 36,141	4,010 44,243	4,660 61,617	5,287 46,799	5,596 57,009	7,346 74,569
43 44	Wyoming: Irrigated Nonirrigated	14,881 31,873	12,605 31,442	11,332 33,026	1.4	1.2	923 1,397	893 586	855 699	1,309 1,477	282,533 57,095	222,567 74,056	374,653 132,938	247,744 40,328	167,337 41,342	325,291 99,490

See footnotes at end of table.

SUMMARY 23

Wild hay	r cut—Cont	inued						Other	hay cut						Alfalfs	seed har	vested	
Production (ton	on—Con.		Fart	ms report	ing		Acres			Pr	oduction (tons)			Tons	Fam	ms report	ing	
Average	per acre	Tons aold, 1959	1959	1954	1949	1959	1954	1949	1959	1954	1949	Average	per acre	801d, 1959	1959	1954	1949	
1959	1954						1224	1277	1,,,,			1959	1954		.,,,,			
0.8 1.0 0.8	0.7 0.9 0.7	704,832 91,662 613,170	84,010 3,906 80,104	96,525 4,958 91,567	111,729 5,549 106,180	2,071,365 148,065 1,923,300	2,185,943 158,703 2,027,240	2,506,697 201,081 2,305,616	2,401,667 229,561 2,172,106	2,086,037 226,289 1,859,748	2,585,455 265,246 2,320,209	1.2 1.6 1.1	1.0 1.4 0.9	232,747 37,040 195,707	20,183 3,436 16,747	35,782 5,648 30,134	39,321 6,704 32,617	1 2 3
:::	:::	:::	68 8,845	105 8,503	8,542	1,777 219,601	2,734 176,259	216 117,204	2,361 308,993	2,970 195,234	138 140,876	1.3	1.1 1.1	168 24,886	:::	_i	:::	4 5
:::	NA NA	:::	:::	NA NA	NA NA		NA NA	NA NA	:::	NA NA	NA NA	:::	NA NA	:::	:::	NA NA	NA NA	7
0.8 1.0 0.8	0.7 0.9 0.7	704,832 91,662 613,170	75,097 3,838 71,259	87,917 4,853 83,064	103,146 5,508 97,638	1,849,987 146,288 1,703,699	2,006,950 155,969 1,850,981	2,389,277 200,865 2,188,412	2,090,313 227,200 1,863,113	223,319	2,444,44 <u>1</u> 265,108 2,179,333	1.1 1.6 1.1	0.9 1.4 0.9	207,693 36,872 170,821	20,183 3,436 16,747	35,781 5,648 30,133	39,321 6,704 32,617	10
1.4	1.3	98 40	114 18	256 28	147 42	5,182 1,287	9,202 459	2,792 751	11,039 2,476	19,577 412	4,951 659	2.1 1.9	2.1 0.9	2,408 110	163	204	412 5	11
1.2 1.0	1.2 1.1	4,811 10,093	696 309	826 1,311	752 1,519	28,356 15,888	27,391 43,817	24,993 52,168	48,542 16,522	48,885 74,460	39,348 70,065	1.7 1.0	1.8	13,082 2,677	644 32	937 64	646 286	13
1.0	0.9 0.5	24,899 7,262	404 1,203	401 1,358	658 1,635	16,154 44,221	10,501 47,858	21,994 48,675	23,032 35,689	12,299 30,447	29,392 44,685	1.4	1.2	2, 7 96 3,011	379 207	7 37 197	1,084 526	15
1.2	1.1	4,016 4,090	229 249	252 418	463 661	6,958 7,248	4,467 10,387	11,337 10,920	11,361 10,123	7,332 12,807	17,871 15,672	1.6 1.4	1.6	1,738 2,132	552 257	603 307	802 546	17 18
1.9 1.3	8.0 8.0	114,922	33 5,630	47 8,886	14 6,247	684 74,996	765 122,736	208 85,967	1,372 104,892	1,230 123,777	167 107,676	2.0	1.6	97 6,602	34 5,306	128 7,007	141 7,613	19
1.0	0.9 0.7	14,986 12,644	349 2,311	492 3,807	690 2,699	18,518 120,879	28,669 192,974	33,559 117,032	21,460 73,265	29,694 125,443	35,116 80,791	1.2 0.6	1.0	2,493 5,727	173 561	459 1,089	688 1,539	21 22
1.0 0.7	0.9 0.7	1,050 131,877	76 3,148	139 6,627	80 8,358	1,307 70,814	3,334 148,306	1,378 203,226	1,809 73,906	4,144 127,953	1,697 191,890	1.4	1.2	39 4,717	35 4,731	49 5,208	156 5,572	23 24
0.9	0.8 0.7	6,471 1,238	46 4	48 5	104 20	3,628 1,037	1,971 316	7,395 2,187	4,653 975	2,365 414	8,400 2,051	1.3 0.9	1.2	757	16 2	17 1	70 6	25 26
1.0	1.0	541 319	234 170	367 298	334 396	3,257 9,613	3,494 12,928	2,838 8,998	3,848 7,914	4,260 5,914	3,950 8,027	1.2	1.2 0.5	460 1,936	139 2	149 3	22 1 40	27 28
1.5 0.7	2.9 0.9	235 118,773	7,102	10,274	11 11,912	775 200,187	46 264,881	194 322,411	967 151,916	52 272,557	173 283,790	1.2	1.1	19 9,798	3 819	3,899	20 3,856	29 30
1.4	0.8	96 90,084	18 11,896	16 9,795	21,978	456 255,081	316 175,433	32 194,893	1,348 319,202	449 140,542	43 210,305	3.0 1.3	1.4 0.8	25,705	38 1,709	125 3,401	36 4,394	31 32
1.1	1.1	6,280 5,300	433 2,187	480 3,024	661 3,409	14,442 41,808	14,071 47,092	28,082 110,176	23,024 64,208	23,403 71,331	42,556 162,476	1.6	1.7 1.5	3,069 11,081	169 59	233 68	194 107	3:
0.7	0.9	155 58,277	14 4,849	45 5,937	8,099	520 123,442	1,050 152,640	624 255,190	443 90,863	1,107 133,192	180,170	0.9	0.9	80 4,968	34 2,353	56 7,636	73 6,275	35
1.0	1.2 0.8	203 50,840	519 29,118	576 27,297	295 33,948	15,376 643,737	15,220 544,401	6,933 619,985	30,825 821,326		9,789 658,376	2.0 1.3	1.6	5,064 81,897	53 262	98 525	149 846	36
1.2	1.1	4,457 960	166 59	353 106	504 137	2,770 1,263	6,094 2,692	10,835 3,233	4,458 1,552	8,820 3,093	15,753 4,303	1.6	1.4	957 123	584 314	1,109 405	1,254 528	40
1.4	1.4	4,773	296 2,340	243 3,203	5,250	5,734 38,581	4,150 44,279	3,263 66,421	10,312 58,002	7,919 68,992	5,801 99,000	1.8	1.9	1,949 8,974	277 25	462 36	215 66	42
0.9 0.7	0.8	23,245 1,678	1.89 666	307 690	535 1,328	22,171 53,617	25,228 39,782	44,408 86,179	28,707 30,282	27,872 19,546	49,435 59,397	1.3 0.6	1.1 0.5	1,849 1,363	143 108	275 287	543 412	43

Summary Table 5.-SPECIFIED CROPS IRRIGATED1-FARMS REPORTING, ACREAGE, AND

				Alt's	lfa seed har	vested—Cont	inued			-		Cott	on harvested		
	State and item		Acres			Pr (b	oduction ushels)			Far	ms reporti	ng		Acres	
		1959	1954	1949	1959	1954	1949	Average	per sore 1954	1959	1954	1949	1959	1954	1949
1 2 3	18 States: Total Irrigated Nonirrigated	622,730 242,421 380,309	959,942 292,410 667,532	893,897 229,215 664,682	1,756,425 1,254,359 502,066	2,622,039 1,573,178 1,048,861	1,727,780 710,649 1,017,131	2.8 5.2 1.3	2.7 5.4 1.6	136,417 29,991 106,426	220,105 30,974 189,131	268,905 22,954 245,951	8,585,554 2,923,665 5,661,889	10,606,364 2,909,240 7,697,124	14,238,215 2,442,469 11,795,746
4 5	Louisiana: Irrigated Nonirrigated		50			33		···	0.7	46 24,328	248 51,100	37 64,060	1,445 479,969	6,368 665,644	357 915,773
6 7	Hawaii:* Irrigated Nonirrigated		NA NA	NA NA	•••	NA NA	NA NA	:	NA NA		NA NA	NA NA	:::	NA NA	NA NA
8 9 10	17 Western States: Total Irrigated Nonirrigated	622,730 242,421 380,309	959,892 292,410 667,482	893,897 229,215 664,682	1,746,569 1,254,359 492,210	2,622,006 1,573,178 1,048,828	1,727,780 710,649 1,017,131	2.8 5.2 1.3	2.7 5.4 1.6	112, 043 29,945 82,098	168,757 30,726 138,031	204,808 22,917 181,891	8,104,140 2,922,220 5,181,920	9,934,352 2,902,872 7,031,480	13,322,085 2,442,112 10,879,973
11 12	Arizona: Irrigated Nonirrigated	16,748	27,356	41,789 117	47,493	99,478	135,741 350	2.8	3.6	2,535 3	2,745	1,651 10	362, <u>138</u> 794	438,177	372,282 462
13 14	California: Irrigated Nonirrigated	127,308 2,850	120,793 3,739	49,715 11,932	765,786 11,283	921,497 13,746	188,340 43,336	6.0 4.0	7.6 3.7	8,671 1	9,828	8,355	820,724 80	879,723	861,569
15 16	Colorado: Irrigated Nonirrigated	7,881 7,466	16,727 5,254	23,580	19,316 11,824	40,628 8,552	42,456 14,919	2.5 1.6	2.4	•••		:-:	:::	:::	
17 18	Idaho: Irrigated Nonirrigated	13,938 9,803	15,040 10,551	11,349 14,558	82,859 15,874	47,027 13,968	31,916 18,984	5.9 1.6	3.1 1.3	•••	•••		:::	:::	
19 20	Kansas: Irrigated Nonirrigated	1,159 82,403	4,758 121,752	4,706 113,764	2,950 100,777	13,714 238,596	11,940 147,299	2.5 1.2	2.9 2.0				50	:::	80
21 22	Montana: Irrigated Nonirrigated	7,516 30,487	16,666 50,558	20,227 62,133	12,104 41,975	38,153 89,245	46,926 105,751	1.6 1.4	2.3 1.8	•••				:::	:
23 24	Nebraska: Irrigated Nonirrigated	582 90, 01 9	823 93 , 672	3,360 99,265	908 94,741	2,215 144,436	5,264 138,250	1.6	2.7 1.5			:::		:::	
25 26	Nevada: Irrigated Nonirrigated	1,003 13	731 130	716 170	5,743 24	2,020 292	1,543 149	5.7 1.8	2.8 2.2	19	13		3,327	2,385	385
27 28	New Mexico: Irrigated Nonirrigated	4,220 64	5,477 71	6,593 990	17,419 175	26, 99 1 69	20,220 1,363	4.1 2.7	4.9 1.0	2,844 132	3,229 122	3,066 388	182,194 6,898	189,256 7,794	257,496 27,698
29 30	North Dakota: Irrigated Nonirrigated	75 14,046	138 70,069	318 68,647	98 10,853	188 65,587	554 75, 343	1.3	1.4	:::		:::		:::	
31 32	Oklahoma: Irrigated Nonirrigated	1,297 45,216	4,123 79,919	1,177 108,262	3,251 90,149	14,750 141,568	2,417 218,674	2.5 2.0	3.6 1.8	668 16,251	357 26,449	127 38,025	37,442 564,356	22,057 881,197	8,441 1,219,470
33 34	Oregon: Irrigated Nonirrigated	6,434 1,501	4,730 1,544	2,789 2,286	44,283 4,741	25,387 4,399	7,273 5,540	6.9	5.4 2.8			:::	:::	:::	:::
35 36	South Dakota: 1rrigated Nonirrigated	978 73,910	903 193,391	1,781 124,150	1,264 71,531	1,704 252,633	5,135 158,391	1.3 1.0	1.9 1.3			:::	:::	:::	:::
37 38	Texas: Irrigated Nonirrigated	1,345 7,315	4,353 12,944	4,688 22,898	6,021 13,789	14,649 24,799	12,555 38,284	4.5 1.9	3.4 1.9	15,208 65,708	14,554 111,460	9,714 143,463	1,516,395 4,609,742	1,371,274 6,142,489	941,939 9,632,263
39 40	Utah: Irrigated Nomirrigated	26,535 10,211	38,409 14,651	37,766 11,883	110,368 23,920	151,940 30,979	137,445 3 1, 413	4.2 2.3	4.0 2.1				:::		:::
41 42	Washington: Irrigated Nonirrigated	16,664 920	20,285	5,625 1,188	121,286 5,106	147,767 7,086	37,064 3,367	7.3 5.6	7.3 5.8	:::			:::	:::	:::
43 44	Wyoming: Irrigated Nonirrigated	8,738 4,085	11,098 8,016	13,036 12,432	13,210 5,304	25,070 12,873	23,860 15,718	1.5	2.3 1.6	:::	:::	:::	:::	:::	:::

See footnotes at end of table

25

(Cotton harve	sted—Conti	Lnued						Sugar 1	eets harv	ested for su	igar					otatoea i		T
	Pro (t	duction			Fart	us report	ing		Acres			Proc	Suction sons)			Fai	ms repor	ting	1
1959	1954	1949	Aver per 1959	age acre	1959	1954	1949	1959	1954	1949	1959	1954	1949	_	acre	1959	1954	1949	1
														1959	1954			-	-
7,793,894 4,589,108 3,204,786	6,959,295 4,060,990 2,898,305	8,747,740 2,853,211 5,894,529	0.9 1.6 0.6	0.7 1.4 0.4	18,318 17,815 503	18,441 17,871 570	18,847 18,182 665	735,280 699,865 35,415	695,623 660,154 35,469	512,548 482,271 30,277	14,218,825 13,796,573 422,252	11,714,845 11,312,301 402,544	8,442,470 8,091,906 350,564	19.3 19.7 11.9	16.8 17.1 11.3	93,377 13,942 79,435	241,050 25,126 215,924	261,055 29,774 231,281	. 2
1,918 477,380	6,887 532,725	272 606,914	1.3 1.0	1.1		:::		:::	:::		:::	:::	:::			94 9,216	685 26,514	448 25,681	
:::	NA NA	NA NA	:::	NA NA	:::	NA NA	NA NA		NA NA	NA NA	:::	NA NA	NA NA		NA NA	51 28	NA NA	NA NA	
7,314,596 4,587,190 2,727,406	6,419,683 4,054,103 2,365,580	8,140,554 2,852,939 5,287,615	0.9 1.6 0.5	0.6 1.4 0.3	18,318 17,815 503	18,441 17,871 570	18,847 18,182 665	735,280 699,865 35,415	695,623 660,154 35,469	512,548 482,271 30,277	14,218,825 13,796,573 422,252	11,714,845 11,312,301 402,544	8,442,470 8,091,906 350,564	19.3 19.7 11.9	16.8 17.1 11.3	84,067 13,848 70,219	213,851 24,441 189,410	234,926 29,326 205,600	9
696,341 522	842,694	530,279 487	1.9 0.7	1.9	:::	:::		:::	:::	514	:::	:::	8,290	:::	:::	72 15	76 19	126 51	11
1,791,123 137	1,458,520	1,230,532	2.2 1.7	1.7	2,096 3	1,755	1,423	205, 037 463	213,258	127,748	4,774,519 6,931	4,314,422	2,390,861	23.3 15.0	20.2	998 153	1,627 1,022	2,228 1,639	13 14
:::	:	:::	:::	:::	4,153 8	3,820 107	4,729 85	142,327 514	111,089	113,978 1,896	2,431,246 7,233	1,614,394 24,833	1,853,814 28,846	17.1 14.1	14.5 11.9	1,552 160	2,76 1 574	3,709 721	15 16
:::		:::	:::	:::	3,904 7	3,969	3,889 34	91,102 154	85,696	57,790 565	1,950,490 2,556	1,547,436	1,071,501 8,886	21.4 16.6	18.1	5,283 978	7,766 3,643	9,256 2,792	
13	:::	 15	0.3		112	85	101 1	7,756	6,014	4,379 35	126, 982	62,806	44,510 80	16.4	10.4	28 13,582	28 19,940	7 31,872	19 20
:::	:::	:::		:::	1,270	1,305 8	1,495 167	55,963	53,660 203	48,880 7,213	866,723	695,648 2,375	592, 31.5 92, 306	15.5	13.0 11.7	930 2,756	2,099 6,862	2,201 5,288	21 22
	:::		:::	:::	1,645	1,697 28	1,440 56	63,121 316	58,502 1,076	36,707 1,325	1,066,332 4,392	778,717 8,397	547, 934 17, 307	16.9 13.9	13.3 7.8	525 7,662	885 17,524	1,402 21,921	23 24
5,972	2,883	499	1.8	1.2	9	:::	:::	458	:::	:::	8,344	:::	:::	18.2	:::	117 16	281 38	471 50	25 26
294,883 4,786	286,290 4,192	249,068 12,215	1.6 0.7	1.5 0.5	10	12	10	em	543	225	8,703	6,000	2,413	14.2	11.0	70 7	305 92	349 122	27 28
:::	:::	:::	:::	:::	110 465	106 415	101 267	4,346 33,787	4,279 32,005	3,187 18,348	51,348 397,741	49,600 365,398	34,783 186,996	11.8	11.6 11.4	27 6,774	68 26,467	62 24,108	29 30
45,406 319,427	21,895 254,872	6,668 561,124	1.2 0.6	1.0 0.3	:::	:::	:::	:::		:::		:::	:::	:::	:::	15 13,720	43 28,923	21 38,087	31 32
			:::	:::,	509 2	539	575 8	20,541 26	18,347	15,499 214	509,957 717	395,902	337,990 3,282	24.8 27.6	21.6	1,165 1,267	2,467 6,994	2,406 7,324	33 34
:::		:::	:::	:::	133	147	122	6,028	5,669	3,627	88,570	70,262	49,065	14.7	12.4	47 1,913	73 14,346	67 12,272	35 36
1,753,465 2,402,521	1,441,821 2,106,516	835,893 4,713,774	1.2 0.5	1.1 0.3	49 1	20 1	20 1	1,769 34	1,147 6	1,246 40	35, 356 650	16,467 13	16,184 1,186	20.0 19.1	14.4	345 18,342	363 52,973	337 51,052	37 38
:::			:::	::: }	1,827	2,492 11	2,773 33	29,810	31,765 98	26,621 292	551,677	524,654 1,528	453,115 4,405	18.5	16.5 15.6	1,426	2,777 508	4,076 643	39 40
			:::		1,031 6	955	527 13	32,950 82	33,296	13,751 349	741,513 1,532	728,395	288,068 7,270	22.5 18.7	21.9	1,036 2,645	2,193 9,069	1,797 7,116	41 42
:::			:::	:::	9 <i>5</i> 77 2	969	973 	38,046 39	36,889	28,119	584,813 500	507,598	401,063	15.4 12.8	13.8	21.2 87	629 416	811 542	43 44

Summary Table 5.-SPECIFIED CROPS IRRIGATED -FARMS REPORTING, ACREAGE, AND

_		Irish	potatoes	harvested	for home use	or for sale-	-Continued		Vege	tables barves	ted for sale ³	<u>.</u>	Specifi	ed veget for sal	ables ha	rvested
	State and item		Acres ⁵			Production (bushels)		Farms r	eporting	Val (doll	lue Lars)		Aspe	ragus	Green be	snap ans
		1959	1954	1949	1959	1954	1949	1959	1954	1959	1954	Acres, 1959	Farms re- port- ing	Acres	Farms re- port- ing	Acres
1 2 3	18 States: Total Irrigated Nomirrigated	570,297 439,687 130,610	529,610 387,365 142,245	595,851 413,548 182,303	188,700,772 162,477,070 26,223,702	157,261,429 129,390,040 27,871,389	154,621,067 124,748,704 29,872,363	37,410 18,956 18,454	54,535 20,978 33,557	406,543,056 370,033,730 36,509,326	314,873,666 250,314,681 64,558,985	1,439,729 1,105,592 334,137	1,366 1,226 140	100,581 97,414 3,167	5,632 2,473 3,159	36,196 29,321 6,875
4	Louisiana: Irrigated Nonirrigated	23 3,189	67 6,905	47 8,996	3,768 322,405	10,056 752,961	5,340 660,483	317 3,326	539 5,919	184,730 1,766,987	242,924 2,818,568	1,428 18,533	 i	(z)	81 1,037	199 1,438
6 7	Hawaii:* Irrigated Nonirrigated	60 24	NA NA	NA NA	6,022 2,050	NA NA	NA. NA	1,979 779	NA NA	2,477,455 716,890	NA NA	2,573 1,222	:::	:::	197 105	174 44
8 9 10	17 Western States: Total Irrigated Nonirrigated	567,085 439,664 127,421	522,638 387,298 135,340	586,808 413,501 173,307	188,374,599 162,473,302 25,901,297	156,498,412 129,379,984 27,118,428	153,955,244 124,743,364 29,211,880	33,767 18,639 15,128	48,077 20,439 27,638	404,591,339 369,849,000 34,742,339	311,812,174 250,071,757 61,740,417	1,419,768 1,104,164 315,604	1,365 1,226 139	100,581 97,414 3,167	4,514 2,392 2,122	34,559 29,122 5,437
11 12	Arizona: Irrigated Nonirrigated	5,757 118	3,457 28	3,221 97	2,247,067 2,421	1,326,497 773	995,813 2,275	411 7	471 23	37,201,144 95,950	30,468,179 27,020	78,144 12		20	18 1	88 (2)
13 14	California: Irrigated Nonirrigated	85,565 257	92,780 850	96,464 3,788	38,447,437 54,476	37,255,911 191,967	38,172,367 1,132,243	5,673 183	6,012 1,149	265,864,676 2,784,346	170,335,726 25,921,856	653,767 3,577	285 3	81,588 1,030	589 22	6,870 8
15 16	Colorado: Irrigated Nomirrigated	50,314 727	49,685 1,496	53,958 2,110	17,366,675 121,568	16,399,915 294,750	17,677,627 422,230	1,684	1,842 297	10,534,662 87,019	6,036,926 691,126	38,498 417	35 1	270 (Z)	260 15	2,164 28
17 18	Idaho: Irrigated Nomirrigated	195,537 4,104	146,291 3,860	137,584 6,939	65,990,480 894,103	42,022,173 870,525	34,353,847 1,179,806	.1,255 88	1,372 263	3,148,288 631,351	2,796,493 800,461	20,430 7,798		56	53 7	197 2
19 20	Kansas: Lrrigated Nonirrigated	242 917	54 1,2 1 3	28 4,816	47,274 215,431	7,542 265,745	4,462 761,191	88 1,069	45 807	316,417 727,537	82,536 622,112	2,052 5,060	7 31	29 80	5 78	5 52
21 22	Montana: Irrigated Nonirrigated	6,547 877	5,902 1,880	8,585 3,403	1,776,695 136,855	1,569,842 348,540	1,877,110 517,920	180 84	196 152	201,437 16,074	159,464 103,782	996 120			15 7	7 (z)
23 24	Nebraska: Irrigated Nonirrigated	10,117 3,331	13,779 5,299	27,404 8,107	3,381,185 589,979	3,990,063 618,598	7,105,722 980,427	81 640	65 556	92,514 335,187	27,529 384,845	554 2,169	11 30	27 243	8 18	43 24
25 26	Nevada: Irrigated Nomirrigated	1,178 51	1,428 7	1,369 14	441,960 2,218	494,408 602	320,268 1,189	84	86 3	683,764	362,868 1,535	1,235				
27 28	New Mexico: Irrigated Nomirrigated	1,751 266	712 47	917 286	542,008 3,755	131,840 2,310	154,169 11,618	881 32	1,224 58	3,101,552 3,398	3,328,875 9,686	11,687 101	5	47	47 4	111 2
29 30	North Dakota: Irrigated Nomirrigated	272 99,793	475 94,034	774 100,935	40,063 20,302,060	110,611 19,183,435	134,276 18,067,450	20 95	6 141	31,020 40,606	1,322 50,988	129 280			1 2	5 5
31 32	Oklahoma: Irrigated Nonirrigated	24 1,023	242 1,629	438 4,303	4,190 207,557	61,092 377,534	69,197 565,397	62 2,052	34 2,330	116,105 2,101,204	91,424 1,508,352	1,360 27,159	2 2	1	35 548	610 2,443
33 34	Oregon: Irrigated Nomirrigated	31,561 2,628	33,413 3,322	31,485 4,744	13,279,903 755,745	12,742,695 689,032	9,937,577 868,301	1,603 767	1,216 1,710	13,951,554 8,246,603	6,811,645 11,138,229	44,719 61,781	43 15	1,001 47	5 87 105	10,440 645
35 36	South Dakota: Irrigated Nonirrigated	354 5,367	330 9,022	161 11,583	60,935 627,720	76,537 1,272,992	19,375 1,085,773	46 21 5	30 279	56,560 116,376	28,584 107,829	421 942	2	1 6	2 7	(Z) 1
37 38	Texas: Irrigated Nonirrigated	13,033 3,346	7,036 5,644	12,151 13,387	3,389,397 540,890	1,004,226 830,584	1,189,831 1,407,802	3,071 8,702	3,688 17,703	23,107,848 8,631,695	19,189,795 11,488,315	190,176 135,730	14 11	309 28	343 1,117	6,426 1,740
39 40	Utah: Irrigated Nonirrigated	7,641 170	8,873 269	12,942 713	2,251,520 41,437	2,368,530 61,088	3,149,092 126,291	1,575 51	2,025 404	2,588,695 54,777	2,363,920 334,960	15,709 446	25 8	52 19	158 4	674 24
41 42	Washington: Irrigated Nonirrigated	26,505 3,789	18,602 6,104	20,282 6,856	12,273,930 1,310,378	8,522,937 2,017,581	8,384,788 1,933,345	1,862 1,045	2,041 1,748	8,742,207 10,828,572	7,501,018 8,547,800	43,184 69,526	785 37	14,011 1,713	242 178	1,318 336
43 ; 44	Wyoming: Irrigated Nonirrigated	3,266 6 57	4,239 636	5,738 1,226	932,583 94,704	1,295,165 92,372	1,197,843 148,622	63 39	86 15	110,557 41,644	485,453 1,521	1,103 486	:::	:::	23	163 127

NA Not available. Z Reported in small fractions. ¹Data for a crop which was only partly irrigated are included with nonirrigated. ²For 1959 and 1954, acres obtained by adding the individual hay crops, including grass sliage. Sorghum and annual legume hays are not included. ¹Includes data for the farms where all vegetables were wholly irrigated. 'For 1959 and 1954 does not finished data for farms with less than 20 trues of grapevines; for 1949 does not include acreage for farms with less than 20 trues for 1949 and 1954 does not include acreage for farms with less than 1/2 acre. 'For 1959 and 1954 does not include acreage for farms with less than 20 trues have set of 1949, does not include acreage for farms with less than 15 bushels harvested. See text. 'Past includes bacagiows for Arizann; reported separately on the questionnaire. 'Forghums for all purposes, except sirup. 'Does not include cats out for feeding unthreahed. 'Includes production of osts cleaned out of vetch and pess. 'Not included in 18 States total.

			SI	ecified	vegetab	es harve	sted for s	ale, 19	59—Cont	Lnued				Land in vineya	n bearing	and nonb	earing fruitions, and	t orchards, planted nut	groves, trees	
Cat	bage	Cantalo	ups and elons 6	Sweet	. corn		ce and aine	Dry o	nions	Gree	n peas	Toms	atoes	Far	ms report	ting		Acres		
Farms re- port- ing	Acres	Farms re- port- ing	Acres	Farms re- port- ing	Acres	Farms re- port- ing	Acres	Farms re- port- ing	Acres	Farms re- port- ing	Acres	Farms re- port- ing	Acres	1959	1954	1950	1959	1954	1950	
3,577 2,125 1,452	38,851 32,493 6,358	4,9 7 3 2,108 2,865	97,513 89,608 7,905	10,501 5,563 4,938	93,597 76,679 16,918	2,331 2,066 265	181,144 179,299 1,845	4,082 2,995 1,087	71,692 58,690 13,002	2,424 1,533 891	146,445 24,307 122,138	13,483 6,936 6,547	218,471 210,110 8,361	113,994 59,750 54,244	132,632 67,668 64,964	537,868 116,532 421,336	2,029,194 1,538,782 490,412	1,874,515 1,338,777 535,738	2,270,601 1,513,447 757,154	1
22 625	52 2,155	2 90	2 91	20 586	52 1,571	1 15	(Z) 14	28	49	3 38	11 45	34 892	32 726	48 4,767	50 3,155	1,688 38,104	105 48,671	329 57,831	86 62,365	
118 65	383 120	:::		100 36	144 22	113 50	168 202	74 9	119 17	:::	:::	170 69	195 101	1,609 1,044	NA NA	NA NA	817 14,481	NA NA	NA NA	
2,930 2,103 827	36,644 32,441 4,203	4,881 2,106 2,775	97,420 89,606 7,814	9,895 5,543 4,352	91,974 76,627 15,347	2,315 2,065 250	181,130 179,299 1,831	4,054 2,995 1,059	71,643 58,690 12,953	2,383 1,530 853	146,389 24,296 122,093	12,557 6,902 5,655	217,713 210,078 7,635	109,179 59,702 49,477	129,427 67,618 61,809	498,076 114,844 383,232	1,980,418 1,538,677 441,741	1,816,355 1,338,448 477,907	2,208,150 1,513,361 694,789	. 9
59 2	1,219 (Z)	141	19,093 (Z)	87 6	391 5	175 1	44,392 (Z)	60 2	1,438 1		81	62 4	248 1	1,156 149	1,352 128	3,259 930	27,693 1,286	17,372 1,246	21,642 1,578	11
650 8	10,969	579 21	58,085 355	795 69	18,256 138	1,063 15	118,313 657	649 13	13,716 41	203 13	8,293 424	2,662 62	156,420 558	39,520 10,852	43,012 14,315	56,995 29,569	1,219,722 215,086	1,071,909 251,076	1,156,606 314,051	13
200 8	1,833 51	270 4	2,159 4	477 45	2,819 81	210 6	5,839 14	595 10	7,613 89	199 8	3,017 22	603 11	3,913 33	2,005 328	2,756 431	7,832 4,673	17,472 1,047	19,287 999	24,695 2,557	15
59 6	266 19	54 7	109 45	834 38	12,044 41	27	168	145 4	1,927 105	193 41	1,912 7,511	93 18	115	1,092 353	1,377 415	8,577 5,542	13,981 787	13,359 799	15,120 1,563	17
14 63	43 125	47 3 2 0	898 660	41 702	148 1,541	3 12	7 16	30 163	393 67	2 18	6 8	67 775	155 422	38 3,319	41 3,318	71 42,930	303 8,200	122 8,073	27 14,562	
53 25	38 7			149 68	671 56	15 2	66 1	43 18	28 19	38 24	8 4	60 35	17 10	491 347	676 334	2,599 3,682	1,574 809	2,118 769	2,262 1,206	21 22
12 30	23 62	21 127	20 159	71 533	190 617	1 4	2 4	9	28 5	1 5	37 26	56 420	88 253	74 2,554	100 3,861	532 31,114	134 3,127	118 4,197	147 6,219	23 24
		24	42	25	47		55	41	703			10		224 42	262 20	1,081 231	343 81	465 26	568 86	
51 2	309 2	243 10	519 4	270 20	392 10	117	2,512 1	221 8	2,590 1	36 3	13 1	307 7	2,298 1	2,022 330	2,904 493	5,564 3,671	12,457 787	12,211 1,140	13,127 2,123	27
6 8	13 9	2 4	3 7	9 69	54 147	2	1	2 7	5 49	1	4 5	10 52	15 31	6 863	2 927	31 6,260	30 1,083	5 1,146	2 1,689	29
2 42	2 92	28 631	77 1,383	24 711	61 1,898			6 47	64 135	1 22	1 226	35 931	39 678	22 5,816	18 7,474	19 56,988	109 35,596	65 36,588	29 60,365	
103 120	320 827	89 41	382 241	834 269	17,702 1,184	50 21	248 69	233 79	3,339 680	63 162	1,725 55,368	267 155	473 93	1,968 8,160	2,428 10,552	5,663 33,500	32,576 66,762	30,650 75,232	29,076 101,430	33 34
9	15 22	8 23	14 102	38 151	143 284			3 6	1 7	4	(Z)	42 127	56 77	22 481	46 1,254	128 12,437	29 689	62 1,597	69 2,890	35 36
616 365	16,420 2,456	271 1,573	7,168 4,836	407 1,166	6,261 4,143	184 7 4	6,784 337	564 655	24,846 11,720	10 73	252 96	1,732 2,939	41,401 5,377	2,547 12,334	2,377 12,352	5,413 115,728	80,826 92,570	54,927 77,860	128,135 161,231	37 38
76 1	290 2	149 9	388 15	708 27	4,243 227	24	102	188	771 (z)	565 10	4,288 98	582 8	3,635 41	1,793 200	3,084 324	6,186 2,154	11,763 869	14,391 966	16,853 2,144	39
170 135	668 526	161	633 3	719 452	12,943 4,760	176 98	808 725	187 35	1,206 34	186 466	4,150 58,245	286 95	1,168 35	6,621 3,279	7,040 5,540	9,419 32,919	119,505 12,846	101,172 15,978	104,546 20,930	43
17 3	12 (Z)	13	13	55 26	262 215	10 3	1	19 6	22 (Z)	21 6	507 59	28 16	33 16	101 70	143 71	1,475 904	160 116	215 215	457 165	43

Summary Table 6.- NUMBER OF FARMS, IRRIGATED FARMS, LAND IRRIGATED, NUMBER OF IRRIGATION ORGANIZATIONS, AND LAND IRRIGATED BY IRRIGATION ORGANIZATIONS: 1890 TO 1959

Interstate organizations are counted once in each State, but only once in 18 States total. Acres irrigated is only part within State; acres irrigated direct by two or more organizations are counted twice. See text

			Organiza	ations are co	unted twice.	See text]					
State and item	1959	1954	1950	1945	1940	1935	1930	1920	1910	1900	1890
18 States, total:											
All farmsnumber All land in farmsacres	1,044,166 714,860,571	1,291,246 714,646,180	1,430,097 699,178,437	1,564,691 684,020,148	1,681,171 611,005,769	1,931,631 590,578,471	1,820,479 552,640,743	1,683,787 487,984,204	1,561,368 399,046,472	1,211,644 359,839,348	810,110
Irrigated farmsnumber	267,431	286,793	288,914	277,814	290,126	288,495	264,051	221,623	162,491	113,829	54,136
census yearacres	31,222,967	27,678,507	24,847,341	19,966,986	17,657,365	12,803,202	14,486,342	(1)	(1)	7,744,467	3,715,936
Irrigation organi- zationsnumber	8,749	NA.	10,491	NA.	5,583	NA	4,373	NA.	NA.	NA.	N.A
Acreage reported irrigated by organizationsacres	17,700,841	NA.	14,974,785	NA.	16,377,775	NA.	13,130,663	12,339,434	NA.	NA.	N.A
rizona:											
All farmsnumber All land in farmsacres	7,233 40,203,386	9,321 41,789,946	10,412 39,916,440	13,142 37,856,370	18,468 25,651,092	18,824 14,018,540	14,173	9,975 5,802,126	9,227	5,809 1,935,327	1,426 1,297,033
Irrigated farmsnumber	5,391	6,809	7,822	9,634	10,339	10,050	8,523	6,605	4,841	2,981	1,075
census yearacres	1,152,450	1,177,407	963,560	736,027	575,464	430,056	448,806	(1)	(1)	185,396	65,821
zationsnumber	155	NA.	163	NA.	103	NA.	92	NA.	NA.	NA.	N
Acreage reported irrigated by organizationsacres	643,846	NA.	555,958	NA.	580,202	NA.	501.754	387.054	NA NA	NA.	N/
lifornia:	,		,		,		,	,			
All farmsnumber	99,274	123,075	137,168 36,613,291	138,917 35,054,379	132,658 30,524,324	150,360 30,437,995	135,676	117,670	88,197 27,931,444	72,542 28,828,951	52,894 21,427,293
Irrigated farmsnumber	36,887,948 74,138	37,794,780 84,502	90,755	87,205	84,310	91,347	85,784	29,365,667 67,391	39,352	25,675	13,732
Land irrigated in census yearacres	7,395,570	7,048,049	6,438,324	4,952,819	4,276,554	3,513,700	3,540,350	(1)	(1)	1,446,114	1,004,233
Irrigation organi-	1.075	NA.	1,506	NA.	1,246	NA.	965	NA.	NA.	NA.	N/
zationsnumber Acreage reported irrigated	-,	NA.		NA.		NA.	3,011,175	2,716,170	NA.	NA.	N
by organizationsacres	4,184,482	N.A.	3,135,281	N.A.	3,171,568	N.A.	3,011,175	2,716,170	NA.	NA.	NA.
olorado: All farasnumber	33,390	40,749 38,385,234	45,578	47,618	51,436 31,527,240	63,644	59,956	59,934 24,462,014	46,170	24,700 9,474,588	16,389
All land in farmsacres Irrigated farmsnumber	38,787,312 20,312	38,385,234 23,355	37,953,099 27,121	36,217,808 28,054	31,527,240 29,766	29,978,472 30,321	28,876,171	24,462,014 28,756	13,532,113	9,474,588	4,598,941 9,659
Land irrigated in census yearacres	2,684,757	2,262,921	2,872,348	2,698,579	2,467,548	1,882,888	2,291,927	(1)	(1)	1,611,271	890,735
Irrigation organi-					848	1,002,000 NA	583	NA.	NA.	1,611,271 NA	NA
zationsnumber Acreage reported irrigated	1,933	NA.	2,302	NA							
by organizationsacres	2,669,677	NA.	2,399,618	N.A.	2,807,803	NA	2,423,911	2,333,973	NA.	NA.	NA
daho: All farmsnumber	33,670	38,740	40,284	41,498	43,663	45,113	41,674	42,106	30,807	17,471	6,603
All land in farmsacres Irrigated farmsnumber	15,232,401 25,383	14,364,471 28,218	13,224,192 29,413	12,503,332 28,571	10,297,745 29,898	9,951,661 28,350	9,346,908 27,953	42,106 8,375,873 25,283	5,283,604 16,439	3,204,903 9,188	1,302,256 4,323
Land irrigated in census yearscres	2,576,580	2,324,571	2,137,237		i	1,388,200		(1)	(1)	608,718	217,005
Irrigation organi-	,,	, ,	,-,,	2,026,280	1,895,048	-,-,-	1,634,321				· ·
zationsnumber Acreage reported irrigated	927	NA.	1,064	NA.	482	NA.	410	NA.	NA.	NA.	N.A
by organizationsacres	2,299,457	NA.	1,896,032	NA	2,854,343	NA.	1,853,762	1,975,456	NA.	NA.	N.A
ansas and Oklahoma: All farms	199,023	239,146	273,640	305,982	336,014	387,914	369,908	357,274	368,033	281,098	175,443
All land in farmsacres	85,953,558	85,653,583	84,617,969	84,751,240	82,976,952	83,344,640	80,766,464	77,377,113	72,244,152	64,651,309	31,820,879
Irrigated farmsnumber Land irrigated in	7,073	4,356	1,632	710	1,853	1,515	782	577	1,143	1,053	519
census yearacres Irrigation organi-	959,733	439,702	172,757	98,485	87,309	46,196	59,048	(1)	(1)	26,379	20,818
martionsnumber Acreage reported irrigated	16	N.A.	13	NA.	41	NA.	12	NA.	N.A.	NA.	NA.
by organizationsacres	106,468	NA.	78,489	NA.	42,984	NA.	54,721	34,766	NA.	NA.	NA.
ouisiana:											
All farmsnumber All land in farmsacres	74,438 10,347,328	111,127 11,441,343	124,181 11,202,278	129,295 10,039,657	150,007 9,996,108	170,216 10,444,288	161,445 9,355,437	135,463 10,019,822	120,546 10,439,481	115,969 11,059,127	69,294 9,544,219
Irrigeted farmsnumber Lend irrigeted in	4,817	6,897	7,438	7,185	7,037	6,585	5,588	6,471	2,690	4,531	N.A
census yearacres Irrigation organi-	484,850	707,818	576,775	535,619	413,969	361,943	400,375	(1)	(1)	201,685	84,377
zationsnumber Acreage reported irrigated	203	NA.	321	NA.	49	NA.	86	NA.	NA.	NA NA	N.A
by organizationsacres	185,539	NA.	260,897	NA.	198,431	NA	224,642	195,209	NA.	NA.	NA
tontana:											
All farmsnumber All land in farmsacres	28,959 64,081,391	33,061 61,468,903	35,085 59,247,434	37,747 58,787,318 12,997	41,823	50,564 47,511,868	47,495 44,659,152 11,925	57,677 35,070,656	26,214	13,370	5,603 1,964,197
Irrigated farmsnumber Land irrigated in	11,935	61,468,903 13,114	59,247,434 13,457	12,997	46,451,594 15,087	13,864	11,925	10,807	8,970	11,844,454 8,043	3,706
census yearacres Irrigation organi-	1,874,520	1,890,671	1,716,792	1,555,480	1,587,602	1,272,054	1,343,035	(1)	(1)	951,154	350,582
zationsnumber Acreage reported irrigated	1,050	NA.	1,234	NA.	432	NA.	224	NA.	NA.	NA	NA.
by organizationsacres	1,347,197	NA.	1,149,358	NA.	1,047,204	NA.	709,638	705,114	NA.	NA.	NA.
lebraska;											
All farmsnumber	90,475 47,755,708	100,846 47,486,580	107,183	111,756	121,062 47,343,981	133,616 46,615,762	129,458 44,708,565	124,417 42,225,475	129,678 38,622,021	121,525 29,911,779	113,608 21,593,444
Irrigated farmsnumber	18,936	12,500	9,680	47,752,941 7,156	6,913	5,140	4,602	3,021	1,852	1,932	214
Land irrigated in census yearacres	2,077,926	1,171,369	876,259	631,762	473,775	345,417	404,481	(1)	(1)	148,538	11,744
Irrigation organi- zationsnumber	68	NA.	68	NA.	97	NA.	66	NA.	NA.	NA.	NA.
Acreage reported irrigated						NA.	475,145	374.550	NA.	NA NA	NA.
by organizationsacres	706,339	NA.	508,161	NA.	640,047					NA I	NA.

Summary Table 6.-NUMBER OF FARMS, IRRIGATED FARMS, LAND IRRIGATED, NUMBER OF IRRIGATION OPERANIZATIONS, AND LAND IRRIGATED BY IRRIGATION OPERANIZATIONS, 1890 TO 1959—Continued

ORGANIZATIONS, AND LAND IRRIGATED BY IRRIGATION ORGANIZATIONS: 1890 TO 1959—Continued [Interstate organizations are counted once in each State, but only once in 18 States total. Agree irrigated in only part within State; acree irrigated direct by two or sore organizations are counted twice. See text.]

			organi za	tions are cou	nted twice.	See text					
State and item	1959	1954	1950	1945	1940	1935	1930	1920	1910	1900	1890
Nevada: All farmsnumber All land in farmsacres Irrigated farmsnumber Land irrigated in	2,354 10,942,936 2,110	2,857 8,231,270 2,509	3,110 7,063,525 2,819	3,429 6,178,004 3,072	3,573 3,785,106 3,264	3,696 3,621,769 2,927	3,442 4,080,906 3,031	3, 163 2,357,163 2,718	2,689 2,714,757 2,406	2,184 2,565,647 1,906	1,277 1,661,416 1,167
census yearacres Irrigation organi-	542,976	567,498	727,498	674,204	755,636	253,286	390,192	(1)	(1)	504,168	224,403
zationsnumber	116	NA	157	N/A	102	NA	47	NA.	NA	NA	N.A.
by organizationsacres	263,005	NA	286,299	NA.	385,589	NA	169,730	205,546	NA	NA	NA
New Mexico: All farmsnumber All land in farmsacres Irrigated farmsnumber Land irrigated in	15,919 46,293,207 8,850	21,070 49,450,885 11,690	23,599 47,521,809 12,691	29,695 49,608,445 14,299	34,105 38,860,427 15,811	41,369 34,397,205 17,093	31,404 30,822,034 14,347	29,844 24,409,633 11,390	35,676 11,270,021 12,795	12,311 5,130,878 9,128	4,458 787,882 3,085
census yearacres Irrigation organi-	731,835	649,615	655,287	534,640	436,402	314,319	371,269	(1)	(1) NA	203,893 NA	91,745 NA
zationsnumber Acreage reported irrigated	447	NA.	620	NA.	488	NA.		NA			
by organizationsacres	366,086	NA.	384,210	NA.	402,673	NA.	396,295	387,026	NA.	NA.	NA.
North Dakota: All farms	54,928 41,465,717 471	61,943 41,876,924 399	65,401 41,194,044 304	69,520 41,001,158 206	73,962 37,936,136 479	84,606 39,118,136 273	77,975 38,657,894 113	77,690 36,214,751 340	74,360 28,426,650 69	45,332 15,542,640 54	27,611 7,660,333 7
census yearacres Irrigation organi-	47,656	37,672	35,294	22,814	19,975	11,759	10,651	(1)	(1)	4,872	445
Zationsnumber Acreage reported irrigated	12	NA	6	NA.	13	NA.	1	NA 2 Prof	NA.	NA.	NA.
by organizationsacres	39,849	NA.	34,405	NA .	19,383	N.A.	6,089	8,766	NA.	NA.	NA
Oregon: All farmsnumber. All land in farmsacres Irrigated farmsnumber Land irrigated in	42,573 21,236,298 17,724	54,441 21,047,340 19,826	59,827 20,327,683 17,663	63,125 19,754,257 15,597	61,829 17,988,307 16,159	64,826 17,357,549 13,243	55,153 16,548,678 11,387	50,206 13,542,318 9,154	45,502 11,685,110 6,669	35,837 10,071,328 4,636	25,530 6,909,888 3,150
census yearacres	1,384,284	1,490,366	1,306,810	1,129,059	1,030,228	578,838	637,967	(1)	(1)	388,310	177,944
Irrigation organi- zationsnumber Acreage reported irrigated	650	NA	755	NA.	268	NA	205	N.A.	NA.	NA.	NA
by organizationsacres	846,182	NA.	739,052	NA.	594,171	NA	447,872	395,536	NA.	NA.	NA.
South Dakota: All farms	55,727 44,850,666 1,002	62,520 44,949,473 923	66,452 44,785,529 807	68,705 43,031,964 708	72,454 39,473,584 967	83,303 37,101,871 974	83,157 36,470,083 763	74,637 34,636,491 1,198	77,644 26,016,892 500	52,622 19,070,616 606	50,158 11,396,460 189
Land irrigated in census yearacres Irrigation organi-	115,629	90,371	78,069	52,895	54,073	56,565	59,361	(1)	(1)	43,676	15,717
zationsnumber Acreage reported irrigated	25	NA.	24	NA.	41	NA	16	N.A.	NA.	NA.	NA.
by organizationsacres	83,984	NA	67,539	NA.	49,592	NA.	55,839	69,018	NA.	NA .	NA
Texas: All farmsnumber All land in farmsacres Irrigated farmsnumber Land irrigated in	227,071 143,217,559 27,884	292,947 145,812,733 26,315	331,567 145,389,014 21,427	384,977 141,337,744 15,110	418,002 137,683,372 19,568	501,017 137,597,389 16,435	495,489 124,707,130 10,861	436,033 114,020,621 5,974	417,770 112,435,067 5,238	352,190 125,807,017 1,325	228,126 51,406,937 623
census yearacres Irrigation organi-	5,655,638	4,707,028	3,131,534	1,320,216	894,638	568,533	594,287	(1)	(1)	49,652	18,419
zationsmumber Acreage reported irrigated	103	N.A.	122	NA.	116	N.A.	80	NA.	NA.	NA.	NA.
by organizationsacres	943,818	NA.	1,042,714	NA.	708,131	NA.	666,626	475,440	NA.	NA.	NA.
Utah: All farmsnumber All land in farmsacres 1rrigated farmsnumber Land irrigated in	17,811 12,688,518 15,701	22,826 12,262,222 19,406	24,176 10,865,165 21,126	26,322 10,309,107 23,543	25,411 7,302,007 22,612	30,695 6,239,318 24,332	27,159 5,613,101 23,847	25,662 5,050,410 22,218	21,676 3,397,699 19,709	19,387 4,116,951 17,924	10,517 1,323,705 9,724
census yearacres Irrigation organi.	1,061,683	1,072,682	1,137,995	1,124,081	911,135	583,183	917,139	(1)	(1)	629,293	263,473
zationsnumber Acreage reported irrigated	984	N.A.	1,058	NA.	822	NA.	684	NA.	NA	NA.	NA.
by organizationsacres	1,109,620	NA.	1,083,250	NA.	1,386,921	NA.	1,151,885	1,204,764	NA.	NA.	NA.
Washington: All farmsnumber All land in farmsacres Irrigated farmsnumber Land irrigated in	51,577 18,716,972 19,292	65,175 17,641,429 18,844	69,820 17,369,245 16,928	79,887 16,719,870 15,974	81,686 15,181,815 17,426	84,381 14,680,091 18,186	70,904 13,533,778 15,949	66,288 13,244,720 13,271	11,712,235 7,664	33,202 8,499,297 3,513	18,056 4,179,190 1,046
census yearacres Irrigation organi-	1,006,969	778,135	589,035	520,153	493,982	422,335	405,027	(1)	(1)	135,470	48,799
zations	350	NA.	441	NA	246	NA.	200	NA.	NA.	NA.	NA.
by organizationsacres	847,752	NA.	513,583	NA.	684,613	NA.	411,268	387,684	NA.	NA.	NA.
Wyoming: All farmsnumber All land in farmsacres. Irrigated farmsnumber Land irrigated in	6,412	11,402 34,989,064 7,130	12,614 34,420,892 7,831	13,076 33,116,554 7,793	15,018 28,025,979 8,637		16,011 23,525,234 7,308	15,748 11,809,351 6,449	10,987 8,543,010 6,297	6,095 8,124,536 3,721	3,125 1,830,432 1,917
census yearacres Irrigation organi-	1,469,911	1,262,632	1,431,767	1,353,873	1,284,027	773,930	978,106	(1)	(1)	605,878	229,676
zationsnumber Acreage reported irrigated	686	NA.	693	NA.	243	NA.	200	NA.	NA.	NA.	NA.
by organizationsacres	1,057,540	NA.	839,939	NA.	752,366	NA.	570,311	483,362	NA.	NA.	NA.

NA Not available.

Available data not comparable.

Summary Table 7.-NUMBER OF IRRIGATION ORGANIZATIONS AND ACREAGE IRRIGATED BY TYPE

OF ORGANIZATION: 1920 TO 1959
[Interstate organizations are counted in each State in which they had irrigation works, but only once in 18 States total. For interstate organizations data represent only that part within the State. See text]

	Total irrig	gation by		Mutu	ual		Commer	reial	Distr	-iet
State and year	organi2		Unincorp	orated	incorpo	rated	Commer		Disti	. 200
-	Number	Acres irrigated	Number	Acres irrigated	Number	Acres irrigated	Number	Acres irrigated	Number	Acres irrigated
18 States, total: 1959	8,749 10,491 5,583 4,342 NA	17,700,841 14,974,785 16,377,775 13,130,663 12,339,434	4,989 6,464 1,676 ¹ 3,320 NA	2,067,317 2,129,377 1,006,159 6,271,334 6,580,325	2,737 2,884 2,678 (1) NA	6,732,753 5,637,204 6,504,526 (1)	246 401 273 389 NA	572,912 948,675 1,143,359 1,224,463 1,819,601	558 483 441 363 NA	6,920,52° 4,962,41° 3,807,96° 3,452,27° 1,822,88°
Arizona: 1959. 1950. 1940. 1930. 1920.	155 163 103 92 NA	643,846 555,958 580,202 501,754 387,054	42 61 29 142 NA	17,583 16,503 11,153 158,733 1114,482	34 37 32 (1)	308,784 290,663 71,981 (1)	1 2 3 NA	(D) 12,635 32,600 14,500	15 12 14 15 NA	187,06 131,37 77,16 117,86
California: 1959	1,075 1,506 1,246 965 NA	4,184,482 3,135,281 3,171,568 3,011,175 2,716,170	384 709 284 1577 NA	75,038 126,605 109,390 1853,547 11,215,696	432 561 658 (1) NA	1,035,041 761,621 788,784 (1) (1)	51 80 104 200 NA	158,517 296,439 391,976 312,313 873,499	173 114 101 84 NA	2,836,27 1,821,29 1,778,78 1,598,83 577,16
Colorado: 1959	1,933 2,302 848 583 NA	2,669,677 2,399,618 2,807,803 2,423,911 2,333,973	1,261 1,579 251 1531 KA	543,826 559,708 158,075 11,789,909 11,789,385	642 686 500 (1) NA	1,938,870 1,652,636 2,222,912 (1) (1)	4 6 53 28 NA	2,740 14,873 115,280 286,846 212,138	14 20 21 15 NA	161,65' 155,216 186,92' 230,400 248,40'
Idaho: 1959	927 1,064 482 410 NA	2,299,457 1,896,032 2,854,343 1,853,762 1,975,456	497 648 116 1353	211,622 220,841 67,522 11,198,482 1938,421	367 348 289 (1) NA	1,295,602 1,035,999 1,205,821 (1) (1)	1 3 5 NA	(D) (450 8,719 6,503	53 54 51 43 NA	676,477 567,263 348,363 304,010 355,999
Kansas and Oklahoma: 1959. 1950. 1940. 1930.	16 13 41 12 NA	106,468 78,489 42,984 54,721 34,766	2 4 2 1 ₇ NA	(D) ² 2,013 40,243 ¹ 37,991 ¹ 34,516	8 8 13 (1) NA	45,774 43,920 (1)	1 2 NA	(D) 16,000 150	2	(D)
Louisiana: 1959. 1950. 1940. 1930.	203 321 49 86 NA	185,539 260,897 198,341 224,642 195,209	37 47 12 	(D) 15,735 1,701	1 4 8 	(D) 1,574 36,939	165 270 28 85 NA	175,837 243,588 159,764 224,625 184,574		
Montana: 1959. 1950. 1940. 1930.	1,050 1,234 432 224 NA	1,347,197 1,149,358 1,047,204 709,638 705,114	787 994 126 1 180 NA	362,973 323,918 158,840 1418,862 1393,257	203 158 132 (1) NA	491,189 339,246 417,820 (1) (1)	3 17 8 NA	528 528 3141,890 22,375 34,115	35 39 26 25 NA	309,869 236,790 83,870 35,153
Nebraska: 1959. 1950. 1940. 1930.	68 68 97 66 NA	706,339 508,161 640,047 475,145 374,550	9 11 15 120 NA	(D) 5,873 61,617 154,811 155,408	17 15 24 (1) NA	64,742 43,289 (1) (1) (1)	1 1 5 10 NA	(D) 28,723 53,574 25,335	40 39 38 31 NA	600,265 445,136 291,368 219,590 206,206
Nevada: 1959	116 157 102 47 NA	263,005 286,299 385,589 169,730 205,546	61 90 38 132 NA	49,199 92,964 85,039 132,267 169,877	42 47 39 (1) NA	79,179 74,197 144,914 (1) (1)	1 2 2 3 NA	(D) (D) (D) 5,855 5,990	4 4 2 	120,327 96,547 67,940
New Mexico: 1959. 1950. 1940. 1930. 1930.	447 620 488 502 NA	366,086 384,210 402,673 396,295 387,026	363 485 361 1462 NA	100,758 105,874 123,156 1233,286 1264,610	57 80 83 (1) NA	33,680 51,017 45,030 (1) (1)	1 1 5 5 NA	(D) 22,637 16,192 19,871	11 7 11 5 NA	(D) 84,673 86,675 22,000 15,008
North Dakota: 1959. 1950. 1940. 1940. 1930.	12 6 13 1 NA	39,849 34,405 19,383 6,089 8,766	1 	(D)	1 2 	(D) (D) 500	:::	:::	6 4 3	(D) 27,375 4,605
Oregan: 1959. 1950. 1940. 1930. 1920. See footnotes at end of tabl	650 755 268 205 NA	846,182 739,052 594,171 447,872 395,536	473 580 90 1150 NA	193,100 218,868 46,122 1184,940 1186,037	115 117 102 (1) NA	146,039 117,748 115,617 (1)	7 4 NA	7,123 12,619 27,338	55 47 39 35 NA	(D) 252,069 204,271 160,974 92,081

Summary Table 7.-NUMBER OF IRRIGATION ORGANIZATIONS AND ACREAGE IRRIGATED BY TYPE

OF ORGANIZATION: 1920 TO 1959—Continued
[Interstate organizations are counted in each State in which they had irrigation works, but only once in 18 States total. For interstate organizations data represent only that part within the State. See text]

Enthers rate on Equipment on the	T		par	t within the St	ate. See text	J				
State and year	U.S. Bureau of projects and s operated	f Reclamation; storage systems by bureau	U.S.Bu Indian A		Sta	ite	Ci	ty	Othe	r
Dittor and you	Number	Acres irrigated	Number	Acres irrigated	Number	Acres irrigated	Number	Acres irrigated	Number	Acres irrigated
18 States, total: 1959. 1950. 1940. 1930. 1920.	54 37 97 30 NA	710,904 682,413 3,284,474 1,485,028 1,254,569	123 141 188 110 NA	578,635 506,076 515,765 331,840 284,551	7 31 143 40 NA	44,408 51,782 19,022 11,489 5,620	35 50 62 45 NA	73,385 56,845 91,187 121,218 40,146	25 45 NA	5,316 233,016 531,735
Arizona: 1959 1950 1940 1930 1920	2 2 3 3 NA	(D) 55,671 323,086 278,584 248,814	59 48 20 24 NA	125,574 60,758 84,183 13,555 8,733	1 2 4 NA	(D) 111	2 2 1 1 NA	(D) (D) 301 200	 1 NA	25
California: 1959. 1950. 1940. 1930.	13 6 8 4 NA	26,255 86,637 46,290 31,998 36,622	7 14 51 27 NA	3,354 2,755 4,106 2,908 697	11 15 NA	4,729 9,186 2,936	15 22 24 33 NA	50,000 39,929 46,419 79,590 6,213	5 25 NA	1,090 122,803 3,339
Colorado: 1959. 1950. 1940. 1930. 1920.	6 4 5 2 NA	96,211 81,883 71,145	2 1 1 1 NA	9,672 8,193 6,875 4,813 4,266	1 1 NA		4 5 12 3 NA	12,912 8,992 21,068 26,700 5,825	 4 3 NA	4,57 3,360 2,725
Idaho: 1959. 1950. 1940. 1930. 1920.	4 4 13 3 NA	76,767 39,037 1,187,353 275,954 253,759	3 6 6 6 NA	(D) 32,418 34,965 34,991 36,775	1 1 NA	600 125 10	2 1 1 	(D) 26 1,000	 4 NA	40 ,200 383 ,833
Kansas and Oklahoma: 1959	4 1 	6,470 32,256 	 18 	334	 4 3 NA	538 730 100	 1 	(D)	 2 	1,869
Louisiana: 1959. 1950. 1940. 1930. 1920.					 1 1	27 17		:::		•••
Montana: 1959. 1950. 1940. 1930. 1920.	4 3 18 4 NA	6,887 38,568 186,002 98,327 88,291	17 7 8 5 NA	157,791 158,106 133,542 75,844 98,887	4 29 105 1 NA	18,488 51,752 9,110 360 20	1 NA	(D) 320	1 NA	10,000
Nebraska: 1959. 1950. 1940. 1930.	2 4 1 NA	13,231 257,401 147,026 87,558			1 7 3	(D) 762 134			 4 1 NA	176 10 43
Nevada: 1959. 1950. 1940. 1930.	 3 1 NA	69,345 54,040 44,324	8 14 14 6 NA	(D) 17,580 17,607 6,148 5,321	2 3 NA	744 220 12	NA.	22	2: 2: 2:	(D) 71,200
New Mexico: 1959. 1950. 1940. 1930. 1920.	3 3 2 2 NA	132,325 105,845 98,064 103,090 77,678	1.2 42 25 25 NA	6,712 26,843 27,111 20,824 9,072	 1 NA	20 77	2 1 NA	(D)	 2 NA	883 110
North Dakota: 1959	3 1 1 NA	1,319 14,131 6,089 8,766	 7 	(D) 147	 1 	(Ď) 				
Oregon: 1959. 1950. 1940. 1930. 1920. See footnotes at and of ta	3 5 19 6 NA	12,645 147,715 215,445 61,829 54,981	2 3 7 4 NA	1,790 2,163 5,168 4,135 4,000	3	325	2 3 2 NA	(p) 489 425 330	2 3 NA	23,050 30,769

Summary Table 7.-NUMBER OF IRRIGATION ORGANIZATIONS AND ACREAGE IRRIGATED BY TYPE OF ORGANIZATION: 1920 TO 1959-Continued

[Interstate organizations are counted in each State in which they had irrigation works, but only once in 18 States total. For interstate organizations data represent only that part within the State. See text]

						-				
	Total irri			Mut	ual		Commer	reial	Dist	riat
State and year	organi	zations	Unincor	porated	Incorpo	rated			2.50	.100
	Number	Acres irrigated	Number	Acres irrigated	Number	Acres irrigated	Number	Acres irrigated	Number	Acres irrigated
South Dakota: 1959	25 24 41 16 NA	83,984 67,539 49,592 55,839 69,018	9 13 8 115 NA	3,915 9,628 2,204 ¹ 19,646 10,080	11 8 13 (1) NA	13,037 6,689 12,329 (1) (1)	 NA	2,280	1 1 	(D) 50,767
Texas: 1959	103 122 116 80 NA	943,818 1,042,714 708,131 666,626 475,440	25 34 23 125 NA	17,069 15,072 9,640 158,691 103,378	4 11 15 (1) NA	27,601 38,013 49,663 (1) (1)	18 27 23 20 NA	(D) 329,072 190,763 89,996 262,892	51 45 41 32 NA	647,223 590,529 382,458 452,461 88,573
Utah: 1959	984 1,058 822 684 NA	1,109,620 1,083,250 1,386,921 1,151,885 1,204,764	316 406 164 4656 NA	77,985 100,181 114,229 1934,680 1,014,649	651 634 618 (1) NA	912,058 874,588 885,122 (1)	1 2 11 10 NA	(D) 85,600 99,834 86,911	8 5 9 4 N A	20,163 11,079 31,394 8,125 21,143
Washington: 1959	350 441 246 200 NA	847,752 513,583 684,613 411,268 387,684	209 273 78 1115 NA	50,486 39,697 23,748 192,743 93,192	66 82 73 (1) NA	56,651 57,793 67,228 (1)	2 3 4 10 NA	(D) 1,780 7,290 9,474 21,705	65 74 66 62 NA	274,703 260,243 129,946 97,772 79,918
Wyoming: 1959	686 693 243 200 NA	1,057,540 839,939 752,366 570,311 483,362	521 538 86 1176 NA	334,916 275,597 86,752 1303,086 286,702	113 120 107 (1) NA	283,851 241,211 352,722 (1) (1)	1 2 8 3 NA	(D) 10,931 51,460 57,800	37 27 23 13 NA	364,688 232,058 120,988 86,174 22,935

D Data not shown to avoid disclosure of information for individual organizations.

Deta not shown to evoid discussure of incursions to manage of the component of the componen

Summary Table 7.-NUMBER OF IRRIGATION ORGANIZATIONS AND ACREAGE IRRIGATED BY TYPE OF ORGANIZATION: 1920 TO 1959-Continued

[Interstate organizations are counted in each State in which they had irrigation works, but only once in 18 States total. For interstate organizations data represent only that part within the State. See text]

State and year	U.S. Bureau of projects and s operated		U.S. Bu Indian A		Sta	ite	Ci	ty	Oth	er
	Number	Acres irrigated	Number	Acres irrigated	Number	Acres irrigated	Number	Acres irrigated	Number	Acres irrigated
South Dakota: 1959. 1950. 1940. 1930. 1920.	2 1 1 1 NA	11,382 (D) 34,222 36,193 56,638	2 1 18 	(D) 455 815	 1 	22				
Texas: 1959. 1950. 1940. 1930. 1920.	1 2 2 1 NA	59,023 67,079 73,834 65,442 20,284	 	:::	1 4 2 NA	(D) 322 36 65	3 3 8 	3,768 2,949 1,451 250	:::	
Utah: 1959. 1950. 1940. 1930. 1920.	1 1 7 2 NA	1,030 200,078 40,000 29,285	2 3 7 5 NA	62,528 54,452 58,594 54,619 25,270	:::	::: :::	5 7 6 7 NA	(D) 2,179 11,904 14,627 24,206	 NA	3,300
Washington: 1959. 1950. 1940. 1930.	3 3 12 3 NA	333,179 37,740 328,961 118,667 122,869	5 2 4 7 NA	130,553 115,353 118,637 92,367 69,510	4- 3- NA	159 245 200	 4 5	977 8,644	 NA	290
Wyoming: 1959. 1950. 1940. 1930. 1920.	7 5 10 4 NA	40,540 58,634 154,051 85,886 53,555	6 1 2 1 NA	29,767 27,000 23,681 21,636 22,000	1 NA	 2,120	1 NA	(D) 2,020	 6 3 NA	3,241 22,069 36,230

Summary Table 8.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950

=					North Pacif:	Le Coast (I)		
						Columbi	a River	
	1tem (For definitions and explanations, see text)	18 States, total	Total	Excluding Columbia River	Total	Below Snake River	Above Snake River excluding Yakima River	Yakima River
			_	(I-A)		(I-B)	(I-C)	(I-D)
1	Total acres irrigated in Census year	31,222,967 25,451,176	4,861,000 3,974,363	174,000 119,319	4,687,000 3,855,044	533,000 398,005	788,000 469,856	441,000 422,622
3 4	Irrigation organizationsorganizations 1959 1949	8,749 10,491	2,056 2,495	121 147	1,935 2,348	244 311	460 577	121 157
5	Service area, 1959: Farm area reported served by organizations	21,165,254	4,280,403	83,399	4,197,504	275,841	749,502	474,060
6	Farm area reported irrigated by organizationsacres 1959	17,700,841	3,921,995	75,204	3,846,791	265,851	628,854	447,079
7	Water users served, totalwater users 1959	1,612,111	175,323	10,704	164,619	13,266	39,542	25,132
8	Farm irrigation water userswater users 1959	383,654	91,808	5,396	86,412	7,550	19,344	14,020
9	Residential water userswater users 1959	1,204,339	82,146	4,849	77,297	5,139	20,178	10,994
10	Other water userswater users 1959	24,118	1,369	459	910	577	20	118
11	LAND IRRIGATED BY SOURCE OF WATER, 1959 Ground water sources	14,011,307	743,000	37,000	706,000	115,000	79,000	13,000
12	Surface water sourcesacres	17,211,660	4,118,000	137,000	3,981,000	418,000	709,000	428,000
	WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959	, ,			, , ,	,	10.,	120,000
13 14	Total entering conveyance systems in basinorganizations acre-feet	8,668 72,997,259	2,041 22,859,439	121 394,093	1,920 22,465,346	242 1,428,904	458 3,175,584	119 2,595,138
15 16	From another drainage basinorganizations acre-feet	:::	3 : 44,921	2 36,356	8,565		1 64,756	:::
17	From drainage basin numberD. B. No			II-A			I-D	•••
18 19	From natural sources within basinorganizations acre-feet	7,994 72,997,259	1,909 22,814,518	121 357,737	1,788 22,456,781	239 1,428,904	439 3,110,828	112 2,595,138
20	Surface waterorganizations acre-feet	6,984 68,685,789	1,836 21,902,234	121 350,537	1,7 <u>15</u> 21,551,697	226 1,421,503	419 2,983,138	108 2,587,493
22 23 24	Cround waterorganizations acre-feet From other organizations in the	1,266 4,311,470	108 912,284	7,200	107 905,084	18 7,401	127,690	7 ,6 45
25	e rom other organizations in the basinorganizations receiving acre-feet	1,123 18,644,449	219 2,667,243	9,987	218 2,657,256	7 21,072	32 61,064	8 22,958
26 27	Total leaving conveyance systemsorganizations acre-feet	8,668 72,997,259	2,041 22,859,439	121 394,093	1,920 22,465,346	242 1,428,904	458 3,175,584	119 2,595,138
28 29	Conveyance loss in basinorganizations scre-feet	7,238 15,847,148	1,706 4,975,653	88 62,808	1,618 4,912,845	151 347,140	368 984,887	111 444,081
30 31	Conveyed to another d ainage basinorganizations acre-feet		25,855	22,055	3,800	:::		64,756
32	To drainage basin numberD. B. No			II-A	• • •			I-C
33 34	Delivered for use in the basinorganizations acre-feet	8,604 57,150,111	2,032 17,857,931	121 309,230	1,911 17,548,701	242 1,081,764	458 2,190,697	119 2,086,301
35 36	To farm irrigation water usersorganizations acre-feet	8,585 54,471,479	2,030 17,508,723	121 298,901	1,909 17,209,822	242 1,061,547	457 2,161,754	2,050,194
37 38	To residential water usersorganizations acre-feet	998 1,607,639	196 300,681	4,721	181 290,960	21 17,065	32 26,706	15 9,726
39 40	For other useorganizations acre-feet	1,070,993	62 48,527	608 608	58 47,919	10 3,152	2,237	14 26,381
41 42	Velivered to other ungation organizations	18,644,449	90 2,667,243	9,987	89 2,657,256	5 21,072	10 61,064	3 22,958
43	Average delivery of irrigation water per acre irrigated as reported by organizationsacre-feet	3.1	4.5	4.0	4.5	4.0	3.4	4.6
44	Expanditures for additional new works and equipment for irrigation and drainage, Jan. 1, 1950-Dec. 31, 1959	4,177 1,039,593,875	874 231,248,991	56 1,597,062	818	63	197	48 8,651,486
	dollars	1,039,593,875	231,248,991	1,597,062	206,156,190	2,198,533	195,306,171	8,651,486

Summary Table 8.-NUMBER AND CHARACTERISTICS OF IRRIGATION

			North Pac	ific Coast (I)-	-Continued		South	Pacific Coast (II)
			Colum	bia River—Cont	inued				
				Snake River					Klamath
	Item (For definitions and explanations, see text)	Total	Below Weiser, Idaho	Weiser, Idaho to King Hill, Idaho	King Hill, Idaho to American Falls, Idaho	Above American Falls, Idaho	Total	Klamath River	River to Santa Maria River excluding Central Valley
			(I-E)	(I-F)	(I-G)	(I-H)		(II-A)	(II-B)
1 2	Total acres irrigated in Census year	2,925,000 2,564,561	427,000 354,169	851,000 797,343	864,000 691,829	863,000 721,220	6,915,000 6,100,040	379,000 364,468	493,000 386,613
3	Irrigation organizationsorganizations 1959 1949	1,110 1,305	375 442	259 296	111 108	371 466	1,091 1,501	62 60	39 54
5	Service area, 1959: Farm area reported served by organizations	2,697,601	262,228	772,180	829,064	834,129	4,817,092	303,074	34,349
6	Farm area reported irrigated by organizationsacres 1959	2,505,007	233,614	743,724	748,717	778,952	3,725,866	285,200	30,64
7	Water users served, totalwater users 1959	86,679	10,737	32,798	27,633	15,511	1,141,401	8,105	110,16
8	Farm irrigation water userswater users 1959	45,498	3,819	19,389	10,429	11,861	110,134	2,993	1,33
9	Residential water userswater users 1959	40,986	6,808	13,347	17,196	3,635	1,012,719	5,105	97,37
10	Other water userswater users 1959	195	110	62	8	15	18,548	7	11,45
	LAND IRRIGATED BY SOURCE OF WATER, 1959								
11	Ground water sourcesacres	499,000	13,000	84,000	213,000	189,000	3,902,000	55,000	415,00
12	Surface water sourcesacres	2,426,000	334,000	767,000	651,000	674,000	3,013,000	324,000	78,00
13 14	WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959 Total entering conveyance systems in basin	1,101 15,330,476	373 1,004,967	254 4,453,773	110 4,586,367	370 5,386,667	1,084 13,616,526	61 1,163,712	3 223,16
15 16	From another drainage basinorganizations acre-feet	8,565	27,539	73,759	:::	8,565	609 , 514	22,855	68,66
17	From drainage basin numberD. B. No		I-F	I-G		III-E		I-A	II-C-
18 19	From natural sources within basinorganizations acre-feet	998 15,321,911	369 977,428	229 4,380,014	103 4,586,367	298 5,378,102	986 13,007,012	1,141,657	3 154, 5 0
20 21	Surface waterorganizations acrëqfeet	962 14,559,563	369 977,017	4,106,005	90 4,317,893	277 5,158,648	385 11,352,155	1,087,637	70,37
22 23	Ground waterorganizations acre-feet	762,348	3 411	274,009	19 268,474	219,454	676 1,654,857	54,020	84,12
24 25	From other organizations in the basinorganizations receiving acte-feet	171 2,552,162	6 42,002	57 529,347	10 409,363	98 1,571,450	222 3,862,891	61,814	20,22
26 27	Total leaving conveyance systemsorganizations acre-feet	1,101 15,330,476	373 1,004,967	254 4,453,773	110 4,586,367	370 5,386,667	1,084 13,616,526	1,163,7 12	223,16
28 29	Conveyance loss in basinorganizations acre-feet	989 3,136,737	324 144,900	223 825,534	91 1,260,595	355 905,708	449 2,632,615	52 319,404	11,9
30 31	Conveyed to another drainage basinorganizations acre-feet	3,800	:::	27,539	73,759	3,800	2 36,356	36,356	
32	To drainage basin number			I-E	I-F	III-E		I-A	
33 34	Delivered for use in the basinorganizations acre-feet	1,094 12,189,939	371 860,067	252 3,600,700	109 3,252,013	366 4,477,159	1,068 10,947,555	62 807,952	211,19
35 36	To farm irrigation water usersorganizations acre-feet	1,093 11,936,327	371 840,169	251 3,444,462	109 3,213,424	366 4,438,272	1,056 9,695,465	770,025	3 87,41
37 38	To residential water usersorganizations acre-feet	113 237,463	17 19,468	47 148,128	16 36,529	33 33,338	228 794,837	7,877	46,07
39 40	For other useorganizations acre-feet	28 16,149	2 430	14 8,110	2,060	5,549	457,253	30,050	77,72
41 42	Delivered to other impation organisations	71 2,552,162	42,002	22 529,347	409,363	39 1,571,450	96 3,862,891	61,814	20,22
43	Average delivery of irrigation water per acre irrigated as reported by organizationsacre-feet	4.8	3.6	4.6	4.3	5.7	2.6	2.7	2.
44 45	NEW CAPITAL INVESTMENT, 1950-1959 Expenditures for additional new works and equipment for irrigation and deminage, Jan. 1, 1950-Dec. 31, 1959	511 23,495,739	192 917,166	98 9,416,913	45 11,345,616	178 1,816,044	525 476,112,643	37 55,774,975	11,593,45

18,000 acre-feet from D. B. No. III-C, 245,200 acre-feet from D. B. No. II-E. 2142,080 acre-feet from D. B. No. III-B, 1,336,181 acre-feet from D. B. No. III-C acre-feet from D. B. No. I

SUMMARY 37

ORGANIZATIONS, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950-Continued

	ifornia (IV)	Gulf of Cal			eat Basin (III)	Gr	-		-Continued	ic Coast (II)-	South Pacis	
										Valley	Central	
	Cila River excluding Colorado River	Total	Bear River	Bonnéville Basin excluding Bear River	South Central	Northwest and Humboldt River	Total	Santa Maria River and Basins south	San Joaquin Valley above San Joaquin River	San Josquin River	Sacramento- San Joaquin Delta area, and Sacramento River	Total
	(IV-A and IV-C)		(III-E)	(III-D)	(1II-C)	(III-A and III-B)		(II-C)	(II-F)	(II-E)	(II-C and II-D)	
	1,008,00	3,058,000 2,973,557	401,000 375,773	606,000 684,068	484,000 526,917	341,000 556,169	1,832,000 2,142,927	548,000 654,679	2,338,000 1,963,744	1,197,000 1,198,468	1,960,000 1,532,068	5,495,000 4,694,280
	10:	1,402 1,545	346 339	678 735	102 125	42 68	1,166 1,265	629 951	166 245	60 55	143 149	361 437
,	532,73	2,750,600	429,646	740,249	294,584	115,139	1,579,618	720,001	1,621,070	1,080,380	1,058,218	4,479,669
١	464,33	2,433,197	396,007	610,772	260,658	82,436	1,349,873	304,678	1,392,624	910,623	802,095	3,105,342
4	39,72	84,553	13,778	71,928	8,199	368	94,273	912,386	34,291	32,278	44,178	110,747
	9,32	41,499	10,277	29,320	2,626	363	42,586	27,608	32,441	29,150	16,610	78,201
	26,96	39,563	3,491	42,182	5,569	5	51,247	877,912	1,844	3,123	27,362	32,329
1 2	3,43	3,491	10	426	4		440	6,866	6	5	206	217
0 1	757,00	852,000	38,000	127,000	131,000	61,000	357,000	445,000	1,697,000	528,000	762,000	2,987,000
0 13	249,00	2,206,000	363,000	479,000	353,000	280,000	1,475,000	103,000	641,000	669,000	1,198,000	2,508,000
	10 2,336,19	1,388 13,479,510	346 1,189,476	672 2,053,235	99 1,646,250	42 215,512	1,157 5,098,183	628 1,492,749	165 2,760,445	60 4,832,908	139 5,897,224	356 10,805,565
	1 ::	2 279,628	3,800	5 112,628	1 276,708		6 386,846	2 579,459	2 861,551	1,478,261	3 353,200	1 8,000
. 1			1-н	(4)	IV-B		•••	(3)	II-E	(2)	(1)	
2 1	2,336,19	1,347 13,199,882	283 1,185,676	610 1,940,607	72 1,369,542	42 215,512	1,004 4,711,337	578 913,290	145 1,898,894	36 3,354,647	133 5,544,024	311 10,797,565
9 2	1,096,09	1,299 11,878,924	247 1,146,365	529 1,814,695	66 1,358,746	42 215,512	884 4,535,318	68 22 3, 674	% 1,659,667	25 2,847,151	125 5,463,647	240 9,970,465
	1,240,100	97 1,320,958	43 39,311	112 125,912	10 10,7%	:::	165 176,019	553 689,616	60 239,227	507,496	80,377	95 827,100
8 24	302,18	95 9,065,544	69 260,009	126 364,126	27 193,055	:::	222 817,190	118 581,841	37 1,014,172	30 1,353,857	23 830,987	90 3,199,016
	2,336,19	1,388 13,479,510	346 1,189,476	672 2,053,235	99 1,646,250	42 215,517	1,157 5,098,183	628 1,492,749	165 2,760,445	60 4,832,908	139 5,897,224	356 10,805,565
3 2	10. 669,89	1,297 2,620,961	317 183,042	549 280,421	90 207,573	39 38,548	994 709,584	157 91,492	106 492,153	35 745,739	103 971,856	239 2,209,748
	::	992,463	14,855	1 2,920	2 587,459	:::	598,944		142,080	4 1,206,751	1,404,850	68,669
. 3			(8)	IV-D	(7)				II-E	(6)	(5)	
	1,666,29	1,374 9,866,086	344 991,579	668 1,769,894	97 851,218	42 176,964	1,149 3,789,655	619 1,401,257	164 2,126,212	59 2,880,418	132 3,520,518	352 8,527,148
4 3	1,533,30	1,373 9,509,916	344 966,198	664 1,599,633	97 837,383	42 176,914	1,145 3,580,128	615 641,356	163 2,014,957	58 2,819,536	131 3,362,177	347 8,196,670
1 3	67,26	121 272,757	38 20, 1 69	186 96,141	16 5,601	1 50	241 121,961	172 632,216	13 3,531	2,422	102,717	38 108,670
7 3	65,72	83,413	5,212	74,120	8,234	:::	35 87,566	127,685	107,724	58,460	15 55,624	24 221,808
	302,18	43 9,065,544	13 260,009	39 364,126	3 193,055	:::	55 817,19 0	59 581,841	1,014,172	1,353,857	13 830,987	3,199,016
3 4	3,:	3.9	2.4	2,6	3.2	2.1	2.7	2.1	1.4	3.1	4,2	2.6
4 45	21,644,17	760 113,045,721	135 1,482,075	359 35,741,541	51 9 17, 42 1	6 108,565	551 38,249,602	245 131,385,057	94 103,155,410	33 95,320,749	78 78,882,999	200 277,359,158

Summary Table 8.-NUMBER AND CHARACTERISTICS OF IRRIGATION

=			Gul	f of California	(IV)—Continue	d			
	1			Colorad				Gulf of Mexi Mississipp	co excluding i River (V)
				C	olorado River s	bove Lees Ferry			
	Itom (For definitions and explanations, see text)	Total	Below Lees Ferry excluding Gila River	Total	Excluding Green and Gunnison Rivers	Green River	Gunnison River	Totel	Excluding Rio Grande
			(IV-B)		(IV-D)	(IV-E)	(IV-F)		(V-A and V-D)
1 2	Total acres irrigated in Census year1959	2,050,000 2,087,538	766,000 692,085	1,284,000 1,395,453	463,000 539,174	573,000 586,882	248,000 269,397	5,578,000 4,448,131	3,914,000 2,516,956
4	Irrigation organizationsorganizations 1959	1,297 1,425	110 134	1,187 1,291	561 597	268 249	359 445	826 1,195	254 388
5	Service area, 1959: Farm area reported served by organizations	2,217,861	866,843	1,351,018	553,202	523,547	274,269	2,579,772	856,822
6	Farm area reported irrigated by organizationsacres 1959	1,968,863	793,631	1,175,232	461,911	476,420	236,901	1,791,975	464,479
7	Water users served, totalwater users 1959	44,829	17,086	27,743	15,404	7,292	5,047	59,789	6,746
8	Farm irrigation water userswater users 1959	32,173	10,687	21,486	10,869	6,004	4,613	48,238	5,395
9	Residential water userswater users 1959	12,596	6,381	6,215	4,503	1,288	424	11,431	1,282
10	Other water userswater users 1959	60	18	42	32		10	120	69
	LAND IRRIGATED BY SOURCE OF WATER, 1959								
11	Ground water sourcesacres	93,000	75,000	18,000	8,000	8,000	2,000	3,935,000	3,347,000
12	Surface water sourcesacres	1,957,000	691,000	1,266,000	455,000	565,000	246,000	1,643,000	567,000
13 14	WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959 Total entering conveyance systems in basin	1,283 11,143,317	110 5,854,472	1,173 5,288,845	556 2,406,944	266 1,735,891	352 1,147,302	822 4,959,058	254 1,861,875
15 16	From another drainage basinorganizations acre-feet	2 279,628	276 ,708	2,920	2,920	:::	1,292	:::	1,045
17	From drainage basin numberD. B. No		III-C		III-D		IV-D		V-B
18 19	From natural sources within basinorganizations acre-feet	1,245 10,863,689	5,577,764	1,145 5,285,925	541 2,404,024	26l 1,735,891	343 1,146,010	793 4,959,058	1,860,830
20 21	Surface waterorganizations acre-feet	1.220	5,529,285	1,137 5,253,546	536 2,373,694	260 1,734,006	341 1,145,846	605 4,765,425	107 1,749,546
22 23 24	Ground waterorganizations acre-feet From other organizations in the	80,858	26 48,479	32,3 7 9	30,330	1,885	164	185 193, 633	111,284
25	tom other organisations in the basinorganisations receiving acre-feet	87 8,763,362	8,453,034	73 310,328	43 178,057	10 91,879	20 40,392	49 191,952	12,000
26 27	Total leaving conveyance systemsorganizations acre-feet	1,283 11,143,317	110 5,854,472	1,173 5,288,845	556 2,409,644	266 1,735,891	352 1,147,302	822 4,959,058	254 1,861,875
28 29	Conveyance loss in basinorganizations acre-feet	1,194 1,951,067	87 1,147,988	1,107 803,079	523 416,118	251 192,425	334 194 , 536	731 1,023,643	207 166,342
30 31	Conveyed to another drainage basinorganizations acre-feet	7 992,463	553,416	439,047	334,001	3 106 , 338	:::	1 480	:::
32	To drainage basin number		(3)		(4)	(5)			
33 34	Delivered for use in the basinorganizations acre-feet	1,270 8,199,787	108 4,153,068	1,162 4,046, 71 9	548 1,656,825	264 1,437,128	351 952,766	819 3,934,935	254 1,695,533
35 36	To farm irrigation water usersorganizations acre-feet	1,269 7,976,608	108 4,106,568	1,161 3,870,040	548 1,497,310	263 1,427,684	351 945,046	818 3,658,590	254 1,508,886
37 38	To residential water usersorganizations sore-feet	110 205,492	31 43,521	79 161,971	52 148,909	17 9,444	3,618	70 48,739	26,618
39 40	For other useorganizations acre-feet	17,687	2,979	14,708	12 10,606	:::	4 , 102	29 227,606	160,029
41 42	Delivered to other irrigation organisations	8,763,362	7 8,453,034	34 310,328	13 178,057	11 91,879	10 40,392	28 191,952	1 12,000
43	Average delivery of irrigation water per acre irrigated as reported by organizationsacre-feet	4.1	5.2	3,3	3.2	3.0	4.0	2.0	3.2
44 45	NEW CAPITAL INVESTMENT, 1950-1959 Expenditures for additional new works and equipment for irrigation and drainage. Jan. 1, 1950-Dec. 31, 1959organizations dollars	726 91,401,548	58 66,506,361	668 24,895,187	298 22,369,150	175 1,808,219	195 717,818	419 34,546,306	130 6,383,213

D Data not shown to avoid disclosure of information for individual organizations. 1480 acre-feet from D. B. No. V-C, 45,528 acre-feet from D. B. No. IV-D. 276,708 acre-feet to D. B. No. II-D. 276,708 acre-feet to D. B. No. II-D. 876,708 acre-feet to D. B. No. III-D. 827,181 acre-feet to D. B. No. VI-E. 1.00 p. No. III-D. 827,181 acre-feet to D. B. No. VI-E. 1.00 p. No. III-D. 827,181 acre-feet to D. B. No. VI-E. 1.00 p. No

ORGANIZATIONS, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950-Continued

	Mexico exc i River (V)-						Missis	sippi River						.
									ssouri River	1				Hudsom
Total	Below Fort Quitman	Above Fort Quitman	Total	Red River direct below Lake Texhoma and Arkansas River (VI-A and	Total	Below Three Forks, Montana	Total	Excluding South Platte River	South Platte River above Gaging Station near Paxton	Ye Total	Excluding Big Horn River	Big Horn River	Headwaters sbove Three Forks, Montana	Bay
	(V-B)	(V-C)		VI-B)		(VI-C)		(AI-D)	(VI-E)		(VI-F)	(VI-G)	(VI-H)	(AII)
1,664,000 1,931,175	955,000 984,366	709,000 946,809	8,971,000 5,804,222	2,884,000 1,163,644	6,087,000 4,640,578	1,711,000 755,130	2,851,000 2,401,591	1,867,000 1,417,707	984,000 9 8 3,8 8 4	1,050,000 1,011,822	570,000 552,550	480,000 459,272	475,000 472,035	8,000 7,936
573 807	108 123	465 684	2,227 2,505	398 524	1,829 1,981	205 211	673 750	263 294	413 456	646 676	422 446	224 230	305 350	2
1,722,950	798,062	924,888	5,149,369	682,022	4,467,347	767,732	2,269,285	1,110,755	1,158,530	1,117,353	572,742	544,611	312,977	(D)
1,327,496	637,629	689,867	4,470,560	591,323	3,879,237	577,776	2,036,069	958,737	1,077,332	1,000,259	511,054	489,205	265,133	(D)
53,043	24,773	28,270	56,742	10,596	46,146	5,490	26,760	10,420	16,340	12,038	5,989	6,049	1,858	(D)
42,843	21,756	21,087	49,360	9,198	40,162	5,403	22,705	10,020	12,685	10,214	5,067	5,147	1,840	(D)
10,149	2,968	7,181	7,233	1,325	5,908	80	4,000	398	3,602	1,810	917	893	18	
51	49	2	149	73	76	7	55	2	53	14	5	9		•••
588,000	320,000	268,000	4,224,000	2,318,000	1,906,000	865,000	1,023,000	758,000	265,000	8,000	4,000	4,000	10,000	
1,076,000	635,000	441,000	4,747,000	566,000	4,181,000	846,000	1,828,000	1,109,000	719,000	1,042,000	566,000	476,000	465,000	8,000
569 3,098,228	107 1,261,050	462 1,837,178	2,194 14,632,487	396 1,664,774	1,798 12,967,713	196 1,554,252	662 4,953,793	258 2,782,967	405 2,192, 7 90	637 4,892,841	414 2,305,369	223 2,587,472	303 1,566,827	2 (D)
	:::		333,189	3 46,008	2 287,181	:::	287,181		5 309,145	:::				
				(1)					(²)					
541 3,098,228	96 1,261,050	445 1,837,178	1,968 14,299,∠9B	352 1,618,766	1,616 12,680,532	194 1,554,252	510 4,666,612	231, 2,782,967	279 1,883,645	621 4,892,841	404 2,305,369	217	291 1,566,827	(D)
528 3,015,879	92 1,229,964	436 1,785,915	1,958 14,245,579	350 1,615, 7 71	1,608 12,629,808	192 1,540,454	508 4,648,185	230 2,777,030	278 1,871,155	620 4,891,429	403 2,303,957	217 2,587,472	288 1,549,740	2 (D)
36 82,349	10 31,086	26 51,263	25 53 ,71 9	5 2,995	20 50,724	3 13,798	8 18,427	2 5,937	12,490	1,412	1,412	:::	17,087	:::
48 179,952	20 89,564	28 90,388	316 2,039,629	51 262,204	265 1,777,425	8 93,615	203 1,229,393	32 273,234	171 956,159	38 364,714	19 117,380	19 247,334	16 89,703	:::
569 3,098,228	107 1,261,050	462 1,837,178	2,194 14,632,487	396 1,664,774	1,798 12,967,713	196 1,554,252	662 4,953,793	258 2,782,967	405 2,192,790	637 4,892,841	414 2,305,369	223 2,587,472	303 1,566,827	(D)
525 857,301	96 295,513	429 561,788	2,065 3,884,692	368 311,574	1,697 3,573,118	185 445,363	598 1,504,508	248 1,035,312	350 469,196	621 1,214,613	403 548,461	218 666,152	293 408,634	:::
2 1,525	1 1,045	1 480	:::	:::			:::	3 21,964		:::				:::
	V-A-D	VI-B						(6)		• • • •				
566 2,239,402	106 964,492	460 1,274,910	2,174 10,747,795	395 1,353,200	1,779 9,394,595	195 1,108,889	654 3,449,285	256 1,725,691	398 1,723,594	629	408 1,756,908	221 1,921,320	301 1,158,193	2 (D)
565 2,149,704	106 896,818	459 1,252,886	2,169 10,512,503	395 1,265,540	1,774 9,246,963	195 1,089,543	649 3,356,087	256 1,717,134	393 1,638,953	629 3,648,780	408 1,735,951	221 1,912,829	301 1,152,553	2 (D)
67 22,121	20 7,205	47 14,916	147 68,664	27 4,873	120 63,791	8 7,244	79 25,071	4 1,616	75 23,455	30 25,836	15 19,945	15 5,891	3 5,640	:::
19 67,577	17 60,469	7,108	59 166,628	11 82,787	48 83,841	12,102	33 68,127	2 6,941	31 61,186	9 3,612	1,012	6 2,600	:::	:::
27 179,952	10 89,564	17 90,388	139 2,039,629	19 262,204	120 1,777,425	93 , 615	78 1,229,393	273,234	72 956,159	27 364 , 714	15 117,380	12 247,334	89,703	:::
1.6	1.4	1.8	2.4	2.1	2.4	1.9	1.6	1.8	1.5	3.6	3.4	3.9	4.3	(D)
290 28,163,093	63 13,759,195	227 14,403,898	1,024 146,357,412	157 3,445,745	867 142,911,667	113 73,801,983	222 49,786,340	118 17,739,369	104 32,046,971	408 18,883,064	279 2,425,948	129 16,457,116	124 440,280	(D)

П					North Pacific	Coast (I)		
						Columbia	River	
	Item (For definitions and explanations, see text)	18 States, total	Total	Excluding Columbis River	Total	Below Snake River (Oregon, Washington)	Above Snake River excluding Yakima River	Yakima River
				(I-A)		(I-B)	(I-C)	(I-D)
1 2	Total acres irrigated	267,431 31,222,967	63,220 4,860,640	6,549 174,053	56,671 4,686,587	11,065 533,052	10,786 787,799	7,326 441,139
3	Acres irrigated by sprinklersfarms reporting	54,957	21,993	4,419	17,574	7,880	5,545	1,879
4	scres	2,817,283	843,188	106,085	737,103	257,232	215,928	48,849
5	Sprinklers onlyfarms reporting	41,103	17,246	4,070	13,176	7,144	3,943	869
6	scres	1,959,259	617,887	98,201	519,686	226,900	148,538	19,739
	LAND IRRIGATED, BY SOURCE OF WATER TO INDIVIDUAL FARMS, 1959							
7	Ground water sources on farmfarms reporting	107,021	10,473	1,782	8,691	3,918	1,605	441
8	Bcres	13,243,912	614,080	36,260	577,820	114,817	60,887	13,344
9	Ground water sources on farm only.farms reporting	79,869	7,495	1,549	5,946	3,227	1,181	163
10	scres	10,549,815	401,177	32,078	369,099	80,809	40,845	4,401
11	Surface sources on farmfarms reporting	38,797	14,185	3,012	11,173	4,165	2,848	480
12	Bcres	5,081,250	1,045,384	84,188	961,196	205,806	235,828	30,799
13	Surface sources on farm onlyfarms reporting	29,356	11,558	2,728	8,830	3,577	2,369	245
14	Bcres	4,050,182	841,022	76,662	764,360	166,977	197,243	16,540
15	Irrigation organization sourcesfarms reporting	153,704	43,154	2,108	41,046	3,850	7,084	6,890
16	ccres	12,897,805	3,201,176	53,605	3,147,571	212,429	491,084	396,996
17	Irrigation organization sources	126,650	39,701	1,925	37,776	3,420	6,491	6,464
18	onlyfarms reporting	10,285,737	2,868,102	47,401	2,820,701	184,555	448,139	360,388
19	Both farm ground water sources	10,200,101	2,000,102	47,401	2,020,701	104,555		300,300
1,	and surface sources	4,454	1,000	164	836	410	150	28
20	acres	999,317	126,947	7,421	119,526	44,911	17,520	1,511
21	Both irrigstion organization and farm ground water or farm surface sourcesfarms reporting	27,102	3,466	183	3,283	431	595	426
22	acres	5,337,916	623,392	10,491	612,901	55,800	84,052	58,299

			North Paci	fic Coast (I)-	Continued		South	Pacific Coast	(11)
			Columb	ia River—Conti	nued				
				Snake River					Klamath River
	Item (For definitions and explanations, see text)	Total	Below Weiser, Idaho	Weiser, Idaho to King Hill, Idaho (I-F)	King Hill, Idaho to American Falls, Idaho	Above American Falls, Idaho	Total	Klamath River	to Santa Maria River excluding Central Valley
			(1-8)	(1-г)	(1-0)	(1-11)			, , , , ,
1	Total scres irrigstedfarms reporting	27,494	2,736	10,472	7,076	7,210	71,819	1,830	7,929
2	scres	2,924,597	346,355	851,755	864,111	862,376	6,915,356	379,672	492,663
3	Acres irrigated by sprinklersfarms reporting	2,270	860	427	176	807	18,194	401	4,441
4	acres	215,094	29,215	21,402	34,269	130,208	826,189	24,504	184,512
5	Sprinklers onlyfarms reporting	1,220	703	128	50	339	13,920	137	3,731
6	acres	124,509	21,115	7,587	16,811	78,996	463,437	8,238	140,888
	LAND IRRIGATED, BY SOURCE OF WATER TO INDIVIDUAL FARMS, 1959								
7	Ground water sources on farmfarms reporting	2,727	316	648	894	869	39,238	285	6,367
8	acres	388,772	12,368	38,570	175,063	162,771	3,551,783	46,725	402,560
9	Ground water sources on farm only.farms reporting	1,375	203	252	484	436	25,141	154	5,902
10	scres	243,044	6,282	17,388	116,745	102,629	2,170,362	25,157	357,845
11	Surface sources on farmfarms reporting	3,680	1,326	1,205	385	764	5,435	494	1,204
12	acres	488,763	178,465	162,342	50,164	97,792	850,641	120,326	49,379
13	Surface sources on farm onlyfarms reporting	2,639	1,127	735	221	556	3,442	372	883
14	scres	383,600	149,357	122,699	35,007	76,537	589,248	85,985	33,627
15	Irrigation organization sourcesfarms reporting	23,222	1,331	9,428	6,300	6,163	42,008	1,253	864
16	acres	2,047,062	155,522	650,843	638,884	601,813	2,512,932	212,621	40,724
17	Irrigation organization sources	2,011,002		,		i i			
11	only	21,401	1,171	8,721	5,869	5,640	28,550	1,109	645
18	acres	1,827,619	125,073	584,089	583,664	534,793	1,466,836	179,603	14,852
19	Both farm ground water sources and surface sourcesfarms reporting	248	74	61	64	49	1,218	48	279
20	scres	55,584	12,973	12,646	16,257	13,708	290,609	19,120	32,527
21	Both irrigation organization and farm ground water or farm surface sourcesfarms reporting	1,831	161	703	438	529	13,468	147	220
22	scres	414,750	52,670	114,933	112,438	134,709	2,398,301	69,807	53,812

			South Pacifi	c Coast (II)	-Continued			Gre	et Besin (II	1)	
			Centre	l Vslley							
	Item (For definitions and explanations, see text)	Total	Sacra- mento- San Joaquin Delta ares and Sacramento River (II-C and II-D)	San Josquin River	San Joaquin Valley above San Joaquin River	Sants Maria River and Basins South	Total	Northwest Great Basin and Humboldt River (III-A and III-B)	South Central Great Basin	Bomneville Basin excluding Bear River	Bear River
1	Total scres irrigated	45,945	18,514	11,831	15,600	16,115	17,545	818	2,401	9,977	4,349
2	acres	5,494,649	1,959,690	1,197,326	2,337,633	548,372	1,832,405	341,199	484,474	605,766	400,966
3	Acres irrigated by sprinklersfarms reporting	6,235	4,252	681	1,302	7,117	1,096	69	333	196	498
4	scres	464,504	182,926	53,451	228,127	152,669	71,572	6,324	24,590	8,155	32,503
5	Sprinklers onlyfarms reporting	3,979	3,026	371	582	6,073	452	38	220	77	117
6	acres	206,958	107,197	24,290	75,471	107,353	34,644	3,493	16,355	3,863	10,933
	LAND IRRIGATED, BY SOURCE OF WATER TO INDIVIDUAL FARMS, 1959										
7	Ground water sources on farmfarms reporting	27,464	9,749	3,667	14,048	5,122	2,943	265	937	1,383	358
8	scres	2,772,288	747,154	395,688	1,629,446	330,210	315,159	60,918	130,729	96,337	27,175
9	Ground water sources on farm only.farms reporting	15,186	8,160	1,478	5,548	3,899	1,681	178	768	609	126
10	acres	1,531,331	522,888	190,346	818,097	256,029	209,941	32,417	108,852	56,391	12,281
11	Surface sources on farmfarms reporting	3,400	2,724	315	361	337	2,066	523	368	635	540
12	acres	660,719	558,179	39,853	62,687	20,217	478,971	223,980	129,412	51,606	73,973
13	Surface sources on farm onlyfarms reporting	2,009	1,702	165	142	178	1,236	434	253	272	277
14	scres	459,815	401,185	20,725	37,905	9,821	346,621	179,899	87,548	31,349	47,825
15	Irrigation organization sourcesfarms reporting	27,949	8,068	10,138	9,743	11,942	14,405	123	1,308	2.782	10,192
16	scres	2,061,642	654,357	761,785	645,500	197,945	1,038,275	56,301	224,333	457,823	299,818
17	Irrigation organization sources	36.000				10 ===	10.455	,	1 1		2 /
18	onlyfarms reporting scres	16,021	6,716 460,329	7,928 508,708	1,377	10,775	12,833 882,073	107 39,105	1,170 190,900	8,070 397,539	3,486 254,529
19	Both farm ground water sources	4/4 و 1 1 1 1 1 1	460,329	200,708	102,437	140, 907	002,013	39,105	150,500	397,339	2,34,329
.,	and surface sources	795	581	51	163	96	21.8	82	68	43	25
20	acres	227,508	166,915	16,853	43,740	11,454	95,448	55,905	29,393	5,715	4,435
21	Both irrigstion organization and farm ground water or farm surface sourcesfarms reporting	11,934	1,355	2,209	8,370	1,167	1,577	17	142	983	435
22	acres	2,144,521	408,373	460,694	1,275,454	130,161	298,325	33,873	67,781	114,772	81,896

		Oulf of California (IV)										
						Colorad	River					
						C	olorado River a	bove Lees Ferry				
	Item (For definitions and explanations, see text)	Total	Gila River excluding Colorado River (IV-A and IV-G)	Total	Selow Lees Ferry excluding Gila River	Total	Excluding Green and Gunnison Rivers	Creen River	Gunnison River			
			1V-G)		(11-8)		(1V-D)	(1V-E)	(1-1)			
1	Total scres irrigatedfarms reporting	19,554	4,689	14,865	4,016	10,849	4,999	3,411	2,439			
2	acres	3,057,707	1,007,757	2,049,950	766,164	1,283,786	462,882	573,349	247,555			
3	Acres irrigeted by sprinklersfarms reporting	466	1.02	364	130	234	131	66	37			
4	acres	20,167	4,431	15,736	5,006	10,730	7,057	2,878	795			
5	Sprinklers onlyfarms reporting	196	69	127	76	51	28	19	4			
6	acres	7,977	3,100	4,877	2,395	2,482	1,689	678	115			
	LAND IRRIGATED, BY SOURCE OF WATER TO INDIVIDUAL FARMS, 1959											
7	Gr und water sources on farmfarms reporting	3,249	2,120	1,129	856	273	141	90	42			
8	acres	655,869	570,208	85,661	70,386	15,275	6,230	6,662	2,383			
9	Ground water sources on farm only.farms reporting	2,055	1,478	577	479	98	51	40	7			
10	acres	453,698	407,838	45,860	40,493	5,367	2,532	2,623	212			
11	Surface sources on farmfarms reporting	2,638	279	2,359	209	2,150	1,006	790	354			
12	acres,	578,056	84,043	494,013	24,659	469,354	165,789	235,606	67,959			
13	Surface sources on farm onlyfarms reporting	2,024	201	1,823	153	1,670	827	629	214			
14	acres	506,771	77,800	428,971	18,866	410,105	145,517	209,679	54,909			
15	Irrigation organization sourcesfarms reporting	15,331	2,943	12,388	3,356	9,032	4,093	2,733	2,206			
16	ccres	1,823,782	353,506	1,470,276	671,119	799,157	290,863	331,081	177,213			
17	Irrigation organization sources only	13,811	2,357	11,454	2,982	8,472	3,879	2,534	2,059			
18	scres	1,586,692	222,157	1,364,535	629,117	735,418	270,455	300,055	164,908			
19	Both farm ground water sources and surface sources	146	65	81	28	53	27	14	12			
20	acres	47,347	25,374	21,973	7,421	14,552	6,897	3,466	4.189			
21	Both irrigation organization and farm ground	41,547	2,5,4	21,515	,,,,,,	14,552	0,057	3,400	4,20			
	water or farm surface sourcesfarms reporting	1,518	588	930	374	556	215	194	147			
22	acres	463,199	274,588	188,611	70,267	118,344	37,481	57,526	23,337			

_			Gulf of Mexico	excluding Mississ	ippi River (V)		Mississippi River (VI)		
					Rio Grande River				
	Item (For definitions and explanations, see text)	Total	Excluding Rio Grande River	Total	Below Fort Quitman	Above Fort Quitman	Total	Excluding Missouri River	
			, , , , , , , , , , , , , , , , , , , ,	27, 222	1,		50 400	14,810	
1	Total scres irrigatedfarms reporting	36,593	22,273	14,320	7,503 955,403	6,817 709,138	58,607 8,970,630	2,884,497	
3	Acres irrigated by sprinklersfarms reporting	5,578,145 4,168	3,913,604	1,664,541	149	73	8,997	2,784	
4	scres	524,563	494,948	29,615	23,685	5,930	530,141	171,801	
5	Sprinklers onlyfarms reporting	3,506	3,403	103	74	29	5,747	2,450	
6	scres	448,883	435,257	13,626	11,154	2,472	385,155	150,101	
	LAND IRRIGATED, BY SOURCE OF WATER TO INDIVIDUAL FARMS, 1959			,					
7	Ground water sources on farmfarms reporting	22,042	18,297	3,745	1,685	2,060	29,066	10,046	
8	scres	3,884,872	3,318,188	566,684	309,245	257,439	4,221,698	2,317,737	
9	Ground water sources on farm only farms reporting	19,290	17,450	1,840	1,178	662	24,198	9,087	
10	acres	3,494,256	3,171,894	322,362	240,753	81,609	3,819,960	2,207,730	
11	Surface sources on farmfarms reporting	4,045	2,374	1,671	594	1,077	10,364	1,905	
12	acres	402,440	246,046	156,394	79,868	76,526	1,722,066	142,554	
13	Surface sources on farm onlyfarms reporting	2,967	1,702	1,265	399	866	8,066	1,517	
14	acres	283,039	188,498	94,541	50,738	43,803	1,479,804	113,176	
15	Irrigation organization sourcesfarms reporting	13,582	2,583	10,999	5,817	5,182	25,204	3,925	
16	ecres	1,290,833	349,370	941,463	566,290	375,173	3,026,866	424,206	
17	Irrigation organization sources			0.1/0	F 252	2 016	20,420	3,147	
	onlyfarms reporting	11,315 990,286	2,147 301,951	9,168 688,335	5,352 485,066	3,816 203,269	2,487,807	336,877	
18	acres Both farm ground water sources	990,286	301,991	080,333	465,000	203,209	2,407,007	330,077	
19	and surface sourcesfarms reporting	746	538	208	106	102	1,125	278	
20	acres	219,938	156,400	63,538	32,708	30,830	218,983	76,637	
21	Both irrigation organization and farm ground water or farm surface sourcesfarms reporting	2.000	126	1,839	468	1,371	4,798	781	
22	water or farm surface sourcesfarms reporting	2,275 590,626	436 94.861	495,765	146,138	349,627	964.076	150.079	
	scres	590,626	94,861	495,765	140,136	345,027] 20,017	

-					Mississipp	River (VI)-	-Continued				
					М	descuri Rive	r				
			Below		Platte River		Yel	lowstone Riv	er		Hudson Bay
	Item (For definitions and explanations, see text)	Total	Three Forks, Montana excluding Platte and Yellow- stone Rivers (VI-C)	Total	Excluding South Platte River (VI-D)	South Platte River sbove gaging Station near Pexton, Nebraska (VI-E)	Total	Excluding Big Horn River (VI-F)	Big Horn River	Headwaters above Three Forks, Montana (VI-H)	(Red River of the North)
1	Total acres irrigated	43,797	14,321	20,886	12,946	7,940	7,134	4,296	2,838	1,456	93
2	acres	6,086,133	1,711,335	2,850,480	1,866,721	983,759	1,049,346	569,023	480,323	474,972	8,084
3	Acres irrigated by sprinklersfarms reporting	6,213	3,158	2,711	1,949	762	179	149	30	165	43
4	acres	358,340	182,407	157,407	121,451	35,956	6,395	5,286	1,109	12,131	1,463
5	Sprinklers onlyfarms reporting	3,297	1,762	1,441	1,139	302	62	57	5	32	36
6	acres	235,054	126,126	104,246	87,205	17,041	1,925	1,729	196	2,757	1,276
	LAND IRRIGATED, BY SOURCE OF WATER TO INDIVIDUAL FARMS, 1959										
7	Ground water sources on farmfarms reporting	19,020	7,945	10,878	7,709	3,169	128	94	34	69	10
8	acres	1,903,961	864,933	1,022,214	757,315	264,899	7,929	11 '	3,623	8,885	451
9	Ground water sources on farm only.farms reporting	15,111	7,283	7,736	6,548	1,188	61	54	7	31	9
10	acres	1,612,230	811,354	795,493	663,877	131,616	3,230	3,038	192	2,153	421
11	Surface sources on farmfarms reporting	8,459	3,400	2,469	1,481	988	1,718	1,214	504	872	64
12	acres	1,579,512	361,914	589,130	465,607		271,411	174,215	97,196	357,057	3,692
13	Surface sources on farm onlyfarms reporting	6,549	2,735	1,649	1,156	493	1,432	1,011	421	733	63
14	acres	1,366,628	311,394	513,776	422,330	91,446	223,639	149,979	73,660	317,819	3,677
15	Irrigation organization sources, farms reporting	21,279	3,866	11,142	5,021	6,121	5,601	3,206	2,395	670	20
16	ccres	2,602,660	484,488	1,239,136	643,799	595,337	770,006	390,502	379,504	109,030	3,941
17	Irrigation organization sources								0.016	538	20
	onlyfarms reporting	17,273	3,411	7,998	3,981	4,017	5,326	11	2,316 358,337	89,042	3,941
18	acres	2,150,930	423,789	915,037	500,169	414,868	723,062	364,725	320,331	09,042	3,541
19	Both farm ground water sources and surface sources	847	436	352	215	137	37	19	18	22	1
20	acres	142,348	56,448	56,760	33,715	23,045	7,389	2,109	5,280	21,751	45
21	Both irrigation organization and farm ground				2.614	2 705	278	197	81	132	
	water or farm surface sourcesfarms reporting	4,017	456	3,151	1,046	1 '	92,026		42,854	44,207	
22	acres	813,997	108,350	569,414	240,630	322, 184	72,020	47,172	1 72,004	1,207	I

					North Pacif:	ic Coast (I)		
						Columb	ia River	
	Itom (For definitions and explanations, see text)	18 States, total	Total	Excluding Columbia River	Total	Below Snake River, (Oregon, Washington)	Above Snake River excluding Yakima River	Yakima River
			-	(I-A)		(1-8)	(I-C)	(I-D)
2	Irrigation organizations, total numberorganizations 1959	8,749 10,491	2,056 2,495	121 147	1,935 2,348	244 311	460 577	1
3	Area irrigated as reported by organizationsacres 1959	17,700,841 14,974,785	3,921,995 3,116,889	75,204 60,686	3,846,79 1 3,056,203	265,851 215,166	628,854 306,319	447,0 408,5
5	Farm water users served directlywater users 1959	383,654	91,808	5,396	86,412	7,550	19,344	14,0
5	Total water conveyedacre-feet 1959	91,641,708	25,526,682	404,080	25,122,602	1,449,976	3,236,648	2,618,0
	TYPE OF ORGANIZATION							
7 8 9	Matual: Unincorporatedorganizations 1959 1949 Farm area irrigated directlyacres 1959 Farm water users served	4,989 6,464 2,067,317	1,355 1,770 477,688	87 109 15,412	1,268 1,661 462,276	165 225 27,334	336 443 87,450	30,8
1	directlywater users 1959 Total water conveyedacre-feet 1959	32,360 8,395,862	7,524 2,397,993	425 67,873	7,099 2,330,120	977 132,129	1,649 396,645	187,
2	Incorporatedorganizations 1959	2,737 2,884	507 499	22 22	485 477	45 52	57 52	
5	Farm area irrigated directlyacres 1959 Farm water users served	6,732,753	1,397,988	13,947	1,384,041	50,137	52,132	27,
5	directlywater users 1959 Total water conveyedscre-feet 1959	129,375 29,975,566	25,277 10,704,862	80,508	24,793 10,624,354	1,663 238,410	1,877 295,659	1, 153,
	Districtorganizations 1959 1949 Farm area irrigated directlyacres 1959	558 483 6,920,527	164 182 1,342,298	11 12 (D)	153 170 (D)	30 30 (D)	56 65 105,945	193,
	Farm water users served directlywater users 1959 Total water conveyedacre-feet 1959	178,619 32,949,641	48,018 8,588,305	(D) (D)	(D)	(D) (D)	11,179 550,668	7, 991,
	U.S. Bureau of Reclamation; projects and stor- age systems operated by bureauorganizations 1959	54 37	9		9	2 2	1	,,,,,
	1949 Farm area irrigated directlyacres 1959 Farm water users served	710,904	409,946	***	409,946		267,085	66,
	directlywater users 1959 Total water conveyedacre-feet 1959	14,748 13,144,829	4,250 2,186,727	:::	4,250 2,186,727	•••	2,491 1,601,900	1, 331,
	U. S. Bureau of Reclamation; operated by water users	147	45	4	41	11	11	
	Farm area irrigated directlyacres 1959	3,301,541	NA 814,566	NA 29,104	NA 785,462	NA 146,171	NA 40,522	156,
	Farm water users served directlywater users 1959 Total water conveyedacre-feet 1959	62,998 19,335,011	23,730 5,630,506	3,437 158,508	20,293 541,998	2, 7 61 913,568	1, 7 97 205, 72 7	5, 841,
	U. S. Bureau of Indian Affairsorganizations 1959 1949 Farm area irrigated directlyacres 1959	123 141 578,635	13 10 277,266	:::	13 10 277,266	1 1 (D)	6 2	120
	Farm water users served directlywater users 1959	12.988	5,655		5.655	(D)	(D)	129,
	Total water conveyedacre-feet 1959	3,279,132	1,559,544		1,559,544	(D)	(D)	953,
	Commercialorganizations 1959	246 401 572,912	7 7		3 7	•••	2 4 (D)	
	Farm area irrigated directlyacres 1959 Farm water users served directly	11,270	2,319 668 20,136		2,319 668 20,136		(D) (D)	
	Stateorganizations 1959	7	1 7		1		1	
	Farm area irrigated directlyscres 1959	44,408	(D)	:::	7 (D)	:::	7 (D)	
5	Farm water users served directlywater users 1959 Total water conveyedacre-feet 1959	480 170,944	(D) (D)	::-	(D) (D)	:::	(D) (D)	
	Cityorganizations 1959 1949 Farm area irrigated directlyacres 1959	35 50 73,385	4 9 (D)	1 4 (D)	3 5 (D)	1 1 (D)	1 2 (D)	
5	Farm water users served directly	3,814 982,409	(D) (D)	(D) (D)	(D) (D)	(D) (D)	(D) (D)	

NA Not available.

D Data not shown to avoid disclosure of information for individual organizations.

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Summary Table 10 (Part 1 of 3).-NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950-Continued

			North Paci:	fic Coast (I)-	Continued		Sout	th Pacific Coas	t (II)
			Colum	bia River—Cont	inued				
				Snake River					
	Item (For definitions and explanations, see text)	Total	Below Weiser, Idaho	Weiser, Idaho to King Hill, Idaho	King Hill, Idaho to American Falla, Idaho	Above American Falls, Idaho	Total	Klamath River	Klamath Rive to Santa Mari River excludin Central Valle
L			(I-E)	(I-F)	(I-G)	(I-H)		(I1-A)	(II-B)
1	Irrigation organizations, total numberorganizations 1959	1,110 1,305	375 442	259 296	111 108	371 466	1,091 1,501	62 60	3
1	area irrigated as reported by organizations	2,505,007 2,126,132	233,614 220,973	743,724 635,857	748,717 618,502	778,952 650,800	3,725,866 2,735,897	285,200 205,119	30,64 19,86
	Farm water users served directlywater users 1959	45,498	3,819	19,389	10,429	11,881	110,134	2,993	1,33
1	Total water conveyedacre-feet 1959	17,882,638	1,046,969	4,983,120	4,995,730	6,958,117	17,479,417	1,225,526	243,38
	TYPE OF ORGANIZATION								
3	Mutual: Unincorporatedorganizations 1959 1949 Farm area irrigated directlyacres 1959	692 896 316,659	307 373 146,762	128 168 48,376	72 75 31,679	185 280 89,842	396 723 80,473	25 34 18,331	1,26
	Farm water users served directlywater users 1959 Total water conveyedacre-feet 1959	3,802 1,613,621	1,661 667,453	679 256,819	399 135,392	1,063 553,957	2,150 368,075	132 62,528	9,85
	Incorporatedorganizations 1959	355	58	97	31	171	428	8	1
	Farm area irrigated directlyacres 1959	337 1,254,529	56 68,160	90 173,100	25 543,133	167 470,136	550 1,032,830	17,832	9,59
	Farm water users served directlywater users 1959 Total water conveyedacre-feet 1959	19,415 9,936,59 7	852 26 7 ,303	3,982 1,278,936	7,883 3,578,428	6,698 4,856,204	22,039 2,831,577	232 57,201	65,11
1	Districtorganizations 1959	54 57	9	32 31	6 7	11	184 116	24 15	
	Farm area irrigated directlyacres 1959 Farm water users served	810,498	16,632	510,248	105,658	177,960	2,401,046	(D)	(
	directlywater users 1959 Total water conveyedacre-feet 1959	19,807 5,789,433	656 93,813	14,678 3,430,365	1,500 1,045,609	2,973 1,276,670	77,564 10,051,435	(D)	(1
,	U.S. Bureau of Reclamation; projects and storage systems operated by bureauorganizations 1959	4	 1	1	2	1 2	12	2	
1	Farm area irrigated directlyacres 1959 Farm water users served	76,767		(D)	68,247	(D)	28,670	(D)	
	directlywater users 1959 Total water conveyedacre-feet 1959	714 253,019	:::	(D) (D)	647 236,301	(D) (D)	347 2,600,581	(D)	(
-	U. S. Bureau of Reclamation; operated by water users	15 NA	4 NA	8 NA	3 NA	 NA	37 NA	13 NA	
	Farm area irrigated directlyacres 1959 Farm water users served	442,607 9,902	1,435	318,030	123,142		463,457	178,196	
	directlywater users 1959 Total water conveyedacre-feet 1959	3,511,135	10,750	7,094 2,377,486	2,31 7 1,122,899		7,474 2,111,335	2,119 1,271,892	::
1	J. S. Bureau of Indian Affairsorganizations 1959 1949 Farm area irrigated directlyacres 1959	3 6 43.774	···i	1 1 (D)	•••	2 4 (D)	5 10 3,284	2 3 2,104	
	Farm water users served directlywater users 1959	1,100		(D)		(D)	283	182	
	Total water conveyedacre-feet 1959	266,500		(D)	•••	(D)	13,923	9,750	
(Commercialorganizations 1959	1 3	1 1	···i		₁	51 78	1	
l	Farm area irrigated directlyacres 1959 Farm water users served	(D)	(D)		•••		158,321	(D)	(
	directlywater users 1959 Total water conveyedacre-feet 1959	(D)	(D) (D)	:::	:::	:::	5,765 951,672	(D) (D)	{
5	Stateorganizations 1959 1949 Farm area irrigated directlyacres 1959		•••						
	Farm water users served directlywater users 1959								
١,	Total water conveyedacre-feet 1959 Cityorganizations 1959	1					15		
1	Farm area irrigated directlyacres 1959	(D)	i			(D)	21,242		1,17
	Farm water users served directlywater users 1959 Total water conveyedacre-feet 1959	(D)				(D)	1,986 662,154		10 9,19

NA Not available.

D Data not shown to avoid disclosure of information for individual organizations.

Summary Table 10 (Part 1 of 3).-NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950-Continued

			South Pacif	ic Coast (II	-Continued			Gre	eat Basin (I	II)	
			Central	Valley							-
	Item (For definitions and explanations, see text)	Total	Sacra- mento San Joaquin Delta ares and Sacramento River (II-C and	San Joaquin River	San Joaquin Valley above San Joaquin River	Santa Maria River and Basins south	Total	Northwest Great Basin and Humboldt River	South Central Great Basin	Bonneville Basin excluding Bear River	Bear River
			II-D)	(II-E)	(II-F)	(II-G)		III-B)	(III-C)	(III-D)	(III-E)
1 2	Irrigation organizations, total numberorganizations 1959 1949	361 437	143 149	60 55	166 245	629 951	1,166 1,265	42 68	102 125	678 735	34 33
3	Area irrigated as reported by organizationsacres 1959 1949	3,105,342 2,161,741	802,095 570,864	910,623 884,934	1,392,624 745,943	304,678 349,168	1,349, 873 1,329,810	82,436 109,180	260,658 250,885	610,772 638,007	396,00 331,73
5	Farm water users served directlywater users 1959	78,201	16,610	29,150	32,441	27,608	42,586	363	2,626	29,320	10,2
6	Total water conveyedacre-feet 1959	14,004,581	6,728,211	6,186,765	3,774,617	2,074,590	5,915,373	215,512	1,839,305	2,417,361	1,449,4
	TYPE OF ORGANIZATION Mutusl:										
7 8 9	Unincorporatedorganizations 1959 1949 Farm water users served	97 196 43,737	36 59 30,196	8 20 1,190	53 117 12,351	259 467 17,142	478 582 214,731	37 57 44,253	49 65 49,187	209 285 44,329	18 17 76,96
.1	directlywater users 1959 Total water conveyedacre-feet 1959	526 232,166	212 134,861	20 10,235	294 87,070	1,417 63,528	3,122 648,102	162 98,601	268 163,312	1,586 156,458	1,10 229,73
12	Incorporatedorganizations 1959 1949	116 132	33 27	10 11	73 94	293 402	654 644	2 5	39 39	455 440	15 16
.5	Farm area irrigated directlyacres 1959 Farm water users served	810,492 5.769	174,766	99,559	536,167	194,911	912,653	(D)	(D)	544,690	279,36
.6	directlywater users 1959 Total water conveyedacre-feet 1959	2,074,137	2,317 825,805	526 420,346	2,926 827,986	15,634 635,125	34,255 3,390,910	(D) (D)	(D) (D)	25,179 2,117,114	8,19 962,9
7 8 9	Districtorganizations 1959 Farm area irrigated directlyacres 1959	118 73 2,111,775	56 44 53 7, 365	36 17 798,853	31 20 775,557	40 23 52,374	17 13 147,214	1 2 (D)	6 6 (D)	7 3 16,667	7,61
1	Farm water users served directlywater users 1959 Total water conveyedacre-feet 1959	67,758 8,453,656	10,985 3,803,922	27,991 3,372,097	28,782 1,795,317	7,022 615,556	3,218 1,101,253	(D)	(D)	1,824 67,853	26,80 26,80
2	U.S. Bureau of Reclamation; projects and atorage systems operated by bureauorganizations 1959	8 2	7	2	2	1	1,101,233			1	20,00
4	Farm area irrigated directlyacres 1959 Farm water users served	4,058		1,773	2,285		1,030			1,030	:
6	directlywater users 1959 Total water conveyedacre-feet 1959	7 2,452,896	1,429,780	2,305,080	885,368	8,516	47 29,414	:::	:::	47 29,414	:
7	U. S. Bureau of Reclamation; operated by water users	18 NA	4 NA	3 NA	11 NA	6 NA	14 NA	1 NA	4 NA	8 NA	,
9	Farm area irrigated directlyacres 1959 Farm water users served	280,808	24,641	71,444	184,723	4,453	147,628	(D)	77,895	33,817	(
1	directlywater users 1959 Total water conveyedacre-feet 1959	4,892 814,518	1,032 155,961	205,711	3,065 452,846	24,925	2,874 759,583	(D)	952 404,043	1,548 236,820	(
2 3 4 5	U. S. Bureau of Indian Affairsorganizations 1959 1949 Farm area irrigated directlyacres 1959	1 2 800	1 1 800	•••	 1	2 5 380	9 16 8,305	2 4 (D)	6 12 4,211	1 (D)	
6	Farm water users served directlywater users 1959 Total water conveyedacre-feet 1959	10 2,050	10 2,050			91 2,123	311 42,669	(D)	232 34,345	(D)	
7	Commercialorganizations 1959	2,030	2,030		7	22 i	42,009		34,345	(D)	••
8	1949 Farm area irrigated directlyacres 1959	134,480	14 58,968	9,248	10 66,264	40 19,806	3 (D)		(D)	1 (D)	(1
1	Farm water users served directlywater users 1959 Total water conveyedacre-feet 1959	4,131 789,676	3,086 531,793	611 79,007	434 178,876	1,560 96,786	(D) (D)	:::	(D)	(D) (D)	{
2	Stateorganizations 1959 1949										
4	Farm area irrigated directlyacres 1959 Farm water users served	:::	:::	:::	:::	:::	:::	:::	:::	:::	::
5	directlywater users 1959 Total water conveyedacre-feet 1959	:::	:::	:::	:::	:::	:	:::		:::	
7 8	Cityorganizations 1959 1949					12 14	5		1	4 5	
9	Farm area irrigated directlyacres 1959 Farm water users served directlywater users 1959					20,065	31,008		(a) (a)	2,250 638	
1	Total water conveyedacre-feet 1959		:::	:::	:::	652,956	465,445	:::	(D)	41,594	::

 ${\tt NA}$ Not available. D Data not shown to avoid disclosure of information for individual organizations.

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Summary Table 10 (Part 1 of 3).—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Continued

					Gulf of Calif	ornia (IV)			
						Colorado	River		
						С	olorado River a	bove Lees Ferry	
	Item (For definitions and explanations, see text)	Total	Gila River excluding Golorado River	Total	Below Lees Ferry excluding Gila River	Total	Excluding Green and Gunnison Rivers	Green River	Gunnison River
			(IV-A and IV-C)		(IA-B)		(IV-D)	(IA-E)	(IV-F)
2	Irrigation organizations, total numberorganizations 1959	1,402 1,545	105 124	1,297 1,425	110 134	1,187 1,291	561 597	268 249	35 44
3	Area irrigated as reported by organizationsacres 1959	2,433,197 2,117,187	464,334 466,376	1,968,863 1,087,121	793,631 622,846	1,175,232 1,027,965	461,9 1 1 436,040	476,420 370,180	236,90 221,74
5	Farm water users served directlywater users 1959	41,499	9,326	32,173	10,687	21,486	10,869	6,004	4,61
6	Total water conveyedacre-feet 1959	22,545,054	2,638,375	19,906,679	14,307,506	5,599,173	2,585,001	1,827,770	1,187,69
	TYPE OF ORGANIZATION		l i						
7 8 9	Unincorporatedorganizations 1959 1949 Farm area irrigated directlyacres 1959 Farm water users served	949 1,065 400,837	57 75 25,699	892 991 375,138	23 35 7,726	869 956 367,412	400 432 166,130	186 172 119,102	28 35 82,18
11	directly	5,394 1,796,740	806 132,954	4,588 1,663,786	240 17,732	4,348 1,646,054	2,561 760,568	756 489,774	1,03 395,71
12 13 14	Incorporatedorganizations 1959 1949 Farm area irrigated directlyacres 1959	334 356 978,695	21 27 252,176	313 331 726,519	54 62 82,734	259 269 643,785	110 108 245,139	75 69 (D)	7 9 (I
15 16	Farm water users served directlywater users 1959 Total water conveyedacre-feet 1959	19,778 4,935,301	4,848 1,492,126	14,930 3,443,175	2,239 495,125	12,691 2,948,050	4,850 1,284,319	(D) (D)	(1
17 18 19	Districtorganizations 1959 1949 Farm area irrigated directlyacres 1959	32 28 834,107	7 9 96,426	25 19 737,681	9 7 656,958	16 12 80,723	9 5 29,635	6 6 (D)	(1
20 21	Farm water users served directlywater users 1959 Total water conveyedacre-feet 1959	10,062 7,525,743	740 385,417	9,322 7,140,326	7,191 6,788,350	2,131 351,976	1,860 155,462	(D) (D)	(1
22	U.S. Bureau of Reciamation; projects and stor- age systems operated by bureauorganizations 1959 1949	7 7		7 7	3 4	4 1	4 3		
24 25 26	Farm water users served directly	13,312 248 7,003,633	:::	13,312 248 7,003,633	13,312 248 6,735,053	268,580	268,580		
27	U. S. Bureau of Reclamation; operated	1,1-2,022		,,000,000	0,133,033	200,200	200,300		
28 29 30	by under users	16 NA 930,692	1 NA (D)	15 NA (D)	6 NA (D)	9 NA 121,733	2 NA (D)	4 NA 12,968	% 81,09
31	directlywater users 1959 Total water conveyedacre-feet 1959	13,607 8,602,192	(D) (D)	(D) (D)	(D) (D)	2,772 1,022,305	(D) (D)	84 165,934	1,86 491,59
32 33 34	U. S. Bureau of Indian Affairsorganizations 1959 1949 Farm area irrigated directlyacres 1959	74 79 204,125	17 10 88,278	57 70 115,847	18 22 32,535	39 48 83,312	38 47 21,007	1 1 (D)	
35 36	Farm water users served directlywater users 1959 Total water conveyedacre-feet 1959	5,827 1,267,257	2,921 612,979	2,906 654,278	590 269,765	2,316 384,513	1,598 116,072	(D) (D)	::
37 38 39	Commercialorganizations 1959 1949 Farm area irrigated directlyacres 1959	2 6 (D)	 i	2 5 (D)	2 2 (D)	3	2	 1	
10	Farm water users served directlywater users 1959 Total water conveyedacre-feet 1959	(D) (D)		(D) (D)	(D) (D)				
13	Stateorganizations 1959 1949 Farm area irrigated directlyacres 1959	1 (D)	1 (D)						
45 46	Farm water users served directlywater users 1959 Total water conveyedacre-feet 1959	(D) (D)	(D)	:::			:::	:::	::
47 48 49	Cityorganizations 1959 1949 Farm area irrigated directlyacres 1959	3 1,850	2 2 (D)	1 (D)	1 (D)	:::	:::	:::	
50	Farm water users served directlywater users 1959 Total water conveyedacre-feet 1959	30 15,554	(D) (D)	(D) (D)	(D) (D)	:::		:::	

 $N\!A$ Not available. D Data not shown to avoid disclosure of information for individual organizations.

Summary Table 10 (Part 1 of 3).—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Continued

			Gulf of Mexico	excluding Mississ	ippi River (V)		Mississippi	River (VI)
					Rio Grande River			
	Item (For definitions and explanations, see text)	Total	Mermentau River excluding Rio Grande	Total	Below Fort Ouitman	Above Fort Quitman, Texas	Total	Arkansas River
			(V-A and V-D)		(V-B)	(V-C)		(VI-A and VI-B)
1 2	Irrigation organizations, total numberorganizations 1959	826 1,195	254 388	573 807	108 123	465 684	2,227 2,505	398 524
3	Area irrigated as reported by organizationsacres 1959	1,791,975 2,074,634	464,479 622,986	1,327,496 1,451,648	637,629 639,070	689,867 812,578	4,470,560 3,592,738	591,323 532,783
5	Farm water users served directlywater users 1959	48,238	5,395	42,843	21,756	21,087	49,360	9,178
6	Total water conveyedacre-feet 1959	5,151,010	1,873,875	3,278,180	1,350,614	1,927,566	16,672,116	1,926,978
	TYPE OF ORGANIZATION							
7 8 9	Mutual: Unincorporatedorganizations 1959 1949 Farm area irrigated directlyacres 1959 Farm water users served	446 654 161,946	58 75 24,490	388 579 137,456	49 61 10,232	339 518 127,224	1,367 1,671 731,467	275 387 69,266
11	directly	7,478 431,562	307 113,249	7,171 318,313	1,005 29,729	6,166 288,584	6,689 2,722,669	1,767 223,144
12 13 14	Incorporatedorganizations 1959 1949 Farm area irrigated directlyacres 1959	127 161 356,571	3 12 24,058	124 149 332,513	10 14 12,769	114 135 319,744	697 687 2,054,016	117 130 426,994
15 16	Farm water users served directlywater users 1959 Total water conveyedacre-Feet 1959	4,043 722,650	110 99,420	3,933 623,230	217 34,977	3,716 588,253	23,983 7,597,527	6,334 1,364,387
17 18 19	Districtorganizations 1959 1949 Farm area irrigated directlyacres 1959	59 54 703,959	8 5 48,452	52 49 655,507	44 40 603,956	8 9 51,551	104 90	4
20 21	Farm water users served directlywater users 1959 Total water conveyedacre-feet 1959	23,479 1,448,707	1,258 132,277	22,221 1,317,475	20,354 1,249,495	1,867 67,980	1,484,703 16,252 5,065,602	92,823 1,092 193,107
22 23 24 25	U.S. Bureau of Reclamation; projects and storage systems operated by bureauorganizations 1959 Farm area irrigated directlyacres 1959 Farm water users served	5 4 191,348		5 4 191,348	1 2	4 2 191,348	22 12 66,598	1 2
26	directlywater users 1959 Total water conveyedacre-feet 1959	9,338 982,749		9,338 982,749	:::	9,338 982,749	518 678,974	55,294
27 28 29 30	U. S. Bureau of Reclamation; operated by under users	2 NA 132,306	NA	2 NA (D)	2 NA (D)	 NA :	32 NA 917,529	3 NA 79,352
31	directlywater users 1959 Total water conveyedåcre-feet 1959	7,019 321,040	:::	(D) (D)	(D)	:::	8,294 3,612,819	843 167,745
32 33 34 35	U. S. Bureau of Indian Affairsorganizations 1959 1949 Farm wrea irrigated directlyacres 1959 Farm water users served	1 18 386	:::	1 18 386	1 1 386	17 	21 8 85,269	
36	directlywater users 1959 Total water conveyedacre-feet 1959	1,962	:::	61 1,962	61 1,962	:::	851 393,777	:::
37 38 39	Commercialorganizations 1959 1949 Farm area irrigated directlyacres 1959	184 299 (D)	181 294 (D)	3 5 10,286	3 4 10,286	 1	6 9 (D)	1 1 (D)
40 41	Farm water users served directlywater users 1959 Total water conveyedacre-feet 1959	(D) (D)	(D) (D)	119 34,451	119 34,451		(D)	(D) (D)
42 43 44	Stateorganizations 1959 1949 Farm area irrigated directlyacres 1959	1 (D)	1 			:::	4 23 (D)	··i
45 46	Farm water users served directly	(D) (D)	(D) (D)	•••			(D) (D)	
47 48 49	City	3 5 3,768	3,768	3	i	2	6 5 (D)	
50 51	Farm water users served directlywater users 1959 Total water conveyedacre-feet 1959	11 95,111	11 95,111				(D) (D)	

 ${\tt NA}$ Not available. D Data not shown to avoid disclosure of information for individual organizations.

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Summary Table 10 (Part 1 of 3).- NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950-Continued

1					Mississippi	River (VI)-	Continued				
ı					M1	saouri River					
	Item (For definitions and explanations, see text)		Below Three Forks,		Platte River	South Platte	Yel	lowstone Riv	er	Headwaters	Hudson Bay (Red River
		Total	excluding Platte and Yellow- stone River	Total	Excluding South Platte River	River above Gaging Station near Paxton	Total	Excluding Big Horn River	Big Horn River	Three Forks, Montana	of the North
_			(VI-C)		(VI-D)	(VI-E)		(VI-F)	(VI-G)	(NI-H)	IV)
	Irrigation organizations, total numberorganizations 1959 1949	1,829 1,981	205 2 11	673 750	263 294	413 456	646 676	422 446	224 230	305 350	
	Area irrigated as reported by organizationsscres 1959	3. 879,237 3,059,955	577,776 434,802	2,036,069 1,586,451	958,737 761,602	1,077,332 824,849	1,000,259 831,186	511,054 429,720	489,205 401,466	265,133 207,516	
	Farm water users served directlywater users 1959	40,162	5,403	22,705	10,020	12,685	10,214	5,067	5,147	1,840	
1	Total water conveyedacre-feet 1959	14,745,138	1,647,867	6,183,186	3,056,201	3,148,949	5,257,555	2,422,749	2,834,806	1,656,530	
	TYPE OF ORGANIZATION		-								
h	Mutual: Unincorporatedorganizations 1959 1949 Farm area irrigated directlyacres 1959	1,092 1,284 662,201	103 142 45,943	287 343 258,200	184 217 198,398	103 126 59,802	442 488 209,884	288 321 148,195	154 167 61,689	260 313 148,174	
	Farm water users served directlywater users 1959 Total water conveyedacre-feet 1959	4,922 2,499,525	363 100,548	1,716 702,642	813 562,818	903 139,824	1,831 826,580	1,279 582,363	552 244,217	1,012 869,755	
	Incorporatedorganizations 1959	580	52	326	34	294	157	118	39	45	
	1949 Farm area irrigated directlyacres 1959 Farm water users served	557 1,627,022	31 146,396	346 995,160	32 112,764	314 882,3%	147 368,507	104 231,021	137,486	116,959	
	directlywater users 1959 Total water conveyedacre-feet 1959	17,649 6,233,140	1,431 555,085	11,374 2,771,258	1,153 327,646	10,221 2,463,475	4,016 2,120,022	2,601 1,284,996	1,415 835,026	828 786,775	
Ε	Districtorganizations 1959 1949 Farm area irrigated directlyacres 1959 Farm water users served	100 87 1,391,880	20 14 326,738	46 47 743,519	38 40 621,797	8 7 121,722	34 27 321,623	14 11 130,197	20 16 191,426	:::	
	directlywater users 1959 Total water conveyedacre-feet 1959	15,160 4,872,495	2,931 760,676	8,620 2,346,293	7,584 2,105,236	1,036 241,057	3,609 1,765,526	1,174 549,134	2,435 1,216,392	:::	
1	U.S. Bureau of Reclamation; projects and storage systems operated by bureauorganizations 1959	21 10 66,598	14 5 26,058	4 3	3 2	1	3 2 40,540		3 2 40,540	:::	
	Farm area irrigated directly	518 623,680	314 145,011	268,580	:::	268,580	204 210,089	:::	204 210,089	:::	
t	U. S. Bureau of Reclamation; operated by water users organizations 1959	29	14	7	6	1	8	7	1		
	1949 Farm area irrigated directlyacres 1959 Farm water users served	733,540	NA 290,745	NA 243,431	NA (D)	(D)	NA 199,364	NA (D)	NA (D)	NA 	
	directlywater users 1959 Total water conveyedacre-feet 1959	7,451 3,445,074	2,620 678,912	2,976 1,539,949	(D)	(D)	1,855 1,226,213	(D) (D)	(D)	:::	
t	J. S. Bureau of Indian Affairsorganizations 1959	21 8	11 5			:::	10 4	2 2	8 2	:::	
	Farm area irrigated directlyacres 1959 Farm water users served	85,269	25,564				59,705	(D) (D)	58,064 5/1		
	directlywater users 1959 Total water conveyedacre-feet 1959	393,777	58,439		:::	:::	335,338	(D)	329,082	:::	
0	Commercialorganizations 1959 1949 Farm area irrigated directlyacres 1959	5 8 (D)	1 2 (D)	4,075	2 2 (D)	3 3 500	2	2		:::	
	Farm water users served directly water users 1959 Total water conveyed acre-feet 1959	(D) (D)	(D) (D)	28 14,918	(D) (D)	12 6,992	:::	:::		:::	
S	Stateorganizations 1959 1949	4 22	3 12	1	1	:::			:::		
	Farm area irrigated directlyacres 1959 Farm water users served directlywater users 1959	(D) (D)	(D) (D) (D)	(D) (D)	(D) (D)						
0	Total water conveyedacre-feet 1959 ityorganizations 1959	6	1	5	1	4					
	1949 Farm area irrigated directlyacres 1959 Farm water users served	(D)	•••	6 (D)	(D)	12,912			:::	:::	
	directlywater users 1959 Total water conveyedacre-feet 1959	(D) (D)		(D)	(D)	513 29,021			:::	:::	

NA Not available.
D Data not shown to avoid disclosure of information for individual organizations.

					North Pacifi	c Coast (I)		
		İ				Columbi	a River	
	Item (For definitions and explanations, see text)	18 States, total	Total	Excluding Columbia River	Total	Below Snake River	Above Snake River excluding Yakima River	Yakima River
				(I-A)		(I-B)	(I-C,	(I-D)
	TYPE OF SERVICE, 1959							
2 3 4	All water directly from surface and ground water sources	7,543 70,168,762 56,765,261	1,820 21,122,888 17,214,689	120 388,580 305,609	1,700 21,425,743 16,909,080	235 1,423,056 1,075,327	427 3,042,373 2,085,651	2,598,60 2,071,65
5	users onlyorganizations acre-feet	7,228 30,939,577	1,754 10,169,056	119 279,102	1,635 9,889,954	230 784,650	420 1,985,469	1,834,11
6	To farm and residential users and other irrigation organizations organizations Water to farm and residential	259	58	1	57	5	5	:
8	usersacre-feet Water to other irrigation	10,388,158	4,657,524	16,520	4,641,004	269,605	49,891	214,58
9	organizationsacre-feet To other irrigation organizations	5,779,328	2,103,990	9,987	2,094,003	21,072	15,575	16,65
10	onlyorganizations acre-feet	9,658,198	233,937	:::	8 233,937		34,716	6,30
11 12 13	Part of water from other organizations. organizations. Total water conveyed	452 15,896,595	92 2,633,428	1 15,500	91 2,617,828	9,257	14 164,387	2,53
14	sourcesacre-feet From other irrigation	2,828,497	1,060,832	5,513	1,031,038	5,848	133,211	1-3,46
15	organizationsacre-feet Water deliveredacre-feet To farm and residential	13,068,098 13,148,549	1,676,783 2,297,449	9,987 13,000	1,586,790 2,284,449	3,409 8,648	31,176 134,279	6,00 1,93
17	users onlyorganizations acre-feet	371 5,856,526	81 1,884,162	13,000	80 1,871,162	8,648	11 92,209	1,93
18	To farm and residential users and other irrigation organizationsorganizations Water to farm and residential	76	12		12		3	
20	users	4,670,895	315,200		315,200		31,547	
21	organizations	2,565,560	98,087		98,087		10,523	
22	onlyorganizations acre-feet	55,568		:::				::
23	All of water from other organizations. organizations. Total water conveyedscre-feet. Water deliveredacre-feet. To farm and residential	674 5,576,351 4,809,757	129 1,070,466 964,469		129 1,070,466 964,469	17,663 15,709	17 29,888 29,594	16,95 9,25
27	users onlyorganizations acre-feet	617 3,791,038	115 594,571	:::	115 594,571	15,709	16 28,839	9,2
28	To farm and residential users and other irrigation organizationsorganizations Water to farm residential	44	12		12		1	
10	water to other irrigation	432,924	138,669		138,669		505	
31	organizationsacre-feet To other irrigation organizations	402,575	229,780		229,780		250	
32	onlyorganizatious acre-feet	13 183,220	1,449	:::	1,449	:::	:::	::
33	No water conveyedorganizations	80	15		15	2	2	
2.	WATER FROM OTHER SOURCES							
35 36 37 38 39	Organizations reporting NO water from other sources used on land served by the organization organizations acree served acres irrigated water delivered to farms acre-feet per acre Organizations reporting water from other	7,301 16,487,956 13,903,569 44,600,549 3.2	1,756 3,547,466 3,237,722 13,184,307 4.1	117 66,627 67,904 206,478 3.0	1,639 3,480,804 3,169,818 12,977,829 4.1	214 164,457 157,253 665,939 4.2	365 697,901 587,982 2,016,930 3.4	412,22 378,9 1,761,71
40 41 42 43	sources used on land served by the organizations. organization. organization acres served. acres served. Water delivered to farms acres[est.est]	1,284 4,677,298 3,797,272 9,870,930 2.6	274 728,811 678,696 2,833,190 4.2	4 7,293 7,255 31,397 4.3	270 721,518 671,441 2,801,793 4.2	28 111,384 108,598 395,608 3.6	92 56,029 45,300 144,824 3.2	80,9: 77,2: 328,9: 4

Water was transferred to the basin and released to natural stream channels in excess of the quantity of surface water withdrawn by irrigation organizations. The net effect was to increase the available surface water supply to the basin or State.

			North Pac	Ific Coast (I)—	Continued		Sout	h Pacific Coast	(11)
			Colum	bia River—Conti	inued				
				Snake River					Klammeth Rive
	Item (For definitions and explanations, see text)	Totel	Below Weiser, Idaho	Weiser, Idaho to King Hill, Idaho	King Hill, Idaho to American Falls, Idaho	Above American Falls	Total	South Pacific Coast	to Santa Maria River excluding Central Valley
			(I-E)	(I-F)	(1-0)	(I-H)		(II-A)	(II-B)
	TYPE OF SERVICE, 1959				_				
	water directly from surface and								
T	ound water sourcesorganizations Total water conveyedacre-feet Rater deliveredacre-feet To farm and residential	928 14,435,032 11,676,449	365 975,936 835,287	3,832,377 3,025,913	4,334,515 3,212,891	5,367,363 4,602,358	862 11,076,340 9,116,862	1,166,767 792,758	208,0 124,4
	users onlyorganizations acre-feet To farm and residential users and other	878 5,285,724	361 811,834	175 741,890	1,097,048	250 2,634,952	807 9,180,325	499,837	95,8
	irrigation organizationsorganizations Water to farm and residential	45	3	19	6	19	40	3	
	usersacre-feet	4,106,924	3,766	1,722,749	1,706,380	674,029	1,527,429	231,107	8,4
	Water to other irrigation organizationsacre-feet To other irrigation organizations	2,040,698	2,362	509,234	399,577	1,129,525	1,534,368	61,814	
	only	5 192,921	17,325	2 1,950	9,786	163,860	13 1,874,740	:::	19,9
Part	t of water from other	-		-		28	201		
org	ganizationsorganizations Total water conveyedacre-feet	72 2,441,649	48,427	1,074,264	634,650	706,723	5,263,783	58,759	35,2
	From surface and ground water sourcesacre-feet	895,444	9,241	660,156	251,852	10,839	2,441,182	1-3,055	15,
	From other irrigation organizationsacre-feet	1,546,205	33,172	515,309	382,798	695,884	2,853,001	61,814	20,
W	Water deliveredacre-feet To farm and residential	2,139,587	44,656	1,032,240	423,383	639,308	4,207,422	46,958	29,
	users onlyorganizations acre-feet	64 1,768,370	22,341	986,930	423,383	23 335,716	97 2,775,769	7 46,958	29,
	To farm and residential users and other irrigation organizationsorganizations	9	1	3		5	28		
	Water to farm and residential usersacre-feet	283,653		27,147		256,506	1,148,378		
	Water to other irrigation organizationsacre-feet	87,564	22,315	18,163		47,086	273,571		
	To other irrigation organizations onlyorganizations						1		
	acre-feet	•••					9,704		
	of water from other ganizationsorganizations	102	3	22	7	71	96	l	
1 1	Total water conveyedacre-feet Water deliveredacre-feet To farm and residential	1,005,957 909,916	22,606 21,696	76,479 63,784	26,565 23,042	884,131 801,394	1,139,294 1,028,909	:::	
	users onlyorganizations	89 540,773	21,696	63,784	23,042	432,251	79 838,310	:::	
	To farm and residential users and other irrigation organizationsorganizations	11				11	9		
	Water to farm residential usersacre-feet	138,164				138,164	20,091		
	Water to other irrigation organizationsacre-feet	229,530				229,530	11,893		
	To other irrigation organizations onlyorganizations	2				2	8		
	acre-feet	1,449				1,449	158,615		
No v	water conveyedorganizations	9	2	5	1	1	7	1	
	WATER FROM OTHER SOURCES		1						
ot	anizations reporting NO water from her sources used on land served								
5	the organizationorganizations acres served	963 2,225,336	277,059	868,545	97 801,865	702,264	854 3,241,187	54 298,471	31,
	water delivered to farmsacre-feet	2,054,728 8,573,679	251,661 930,477	843,380 3,049,735	721,468 3,145,141	653,413 3,454,569	2,617,105 7,478,278	280,330 751,581	27, 63,
3 I	acre-feet per acre	4.2	3.7	3.6	4.3	5.3	2.9	2.7	
80	surces used on land served by the ganization	130	53	30	12	36	205	7	
1	acres served acres irrigated	473,155 440,319	51,466 44,597	245,730 242,439	44,004 27,654	132,755 126,429	1,632,020	22,547 21,924	4,0
2 3	Water delivered to farmsacre-feet acre-feet per acre	1,932,448	179,985	1,025,486	128,533	601,503 4.7	2,396,802	52,334 2.4	12,8
2 I	acre-reev per acre	4	11	1		1		1	

Water was transferred to the basin and released to natural stream channels in excess of the quantity of surface water withdrawn by irrigation organizations. The net effect was to increase the available surface water supply to the basin or State.

			South Pacifi	le Coast (II)	-Continued			Gre	at Basin (II	11)	
			Central	Valley							
,	Item (For definitions and explanations, see text)	Total	Sacra- mento- San Josquin Delts area and Sacramento River (II-C and II-D)	San Joaquin River	San Joaquin Valley above San Joaquin River (II-F)	Santa Maria River and Basins South	Total	Northwest Great Basin and Humboldt River	South Central Great Basin	Bonneville Basin excluding Bear River	Bear River
ł			11-07	(11-1)	(11-1)	(11-0)		111-0)	(111-0)	(111-0)	(111-2)
1 2 3	All water directly from surface and ground water sources	266 9,031,242 7,563,434	116 4,686,476 2,750,420	28 4,511,818 2,841,138	128 2,487,560 1,971,876	510 738,930 636,177	934 4,433,946 3,5 1 4,061	42 215,512 176,864	70 1,212,108 746,601	547 1,830,402 1,559,913	277 1,182,214 1,030,683
4	To farm and residential	243 8,300,544	106 6,829,694	23 896,418	115 574,432	488 284,129	895 2,432,180	42 176,864	69 548,420	519 1,089,116	267 617,780
6	To farm and residential users and other irrigation organizations organizations Water to farm and residential	19	7	4	11	17	33	·	1	24	8
8	usersacre-feet Water to other irrigation	1,251,581	269,516	597,883	384,182	36,283	415,073		27,714	183,139	204,220
9	organizationsacre-feet To other irrigation organizations onlyorganizations	1,448,676	79,605	1,148,815	220,256	23,613	534,013		170,467	171,403	192,143
10	acre-feet	1,562,633	571,605	198,022	793,006	292,152	132,795			116,255	16,540
12	Part of water from other organizations Total water conveyedacre-feet From surface and ground water	44 4,069,809	17 1,986,886	1,350,510	18 762,813	70 1,099,947	73 849,715	:::	2 434,142	65 392,870	6 22,703
14	sourceaacre-feet From other irrigation	1,796,419	1,210,748	312,786	272,885	632,719	664,260		434,142	222,833	7,285
15 16	organizationsacre-feet Water deliveredacre-feet To farm and reaidential	2,303,790 3,142,147	776,138 1,502,236	1,037,724 1,063,579	489,928 576,332	467,228 989,153	185,490 447,443	:::	107,088	170,037 329,464	15,453 10,891
17	users onlyorganizations acre-feet	38 2,469,997	1,034,862	10 979,969	17 455,166	47 229,650	62 183,187	:::	:::	56 172,296	10,891
18	To farm and residential users and other irrigation organizationsorganizations Water to farm and residential	6	5	1	1	22	10		2	8	
20	water to other irrigation	488,420	291,574	76,590	120,256	659,958	190,988		102,104	88,884	
21	organizationsacre-feet To other irrigation organizations onlyorganizations	183,730	175,800	7,020	910	89,841	56,080		4,984	51,096	
22	acre-feet	•••			:::	9,704	17,188	:::	:::	17,188	:::
23 24 25 26	All of water from other corganizations	46 903,530 798,775	54,849 43,225	21 324,437 271,098	19 524,244 484,452	48 235,713 230,083	151 611,712 557,675		27 193,055 182,350	61 174,089 170,523	63 244,568 204,802
27	users onlyorganizations acre-feet	45 794,798	39,248	21 271,098	19 484,452	32 43,461	143 456,670	:::	26 164,746	159,133	60 132,791
28 29	To farm and remidential users and other irrigation organizationsorganizations Water to farm residential					9	5			2	3
30	usersacre-feet Water to other irrigation	• • • • • • • • • • • • • • • • • • • •				20,091	23,891			3,206	20,685
31	organizationsacre-feet To other irrigation organizations	•••				11,893	53,958			2,632	51,326
32	onlyorganizations acre-feet	3,977	3,977	:::		154,638	5,552	:::	1	5,552	:::
33	No water conveyedorganizations	5	4		1	1	8		3	5	
34	WATER FROM OTHER SOURCES Organizations reporting NO water from										
35 36 37 38 39	other sources used on land served by the organization	2,507,194 2,060,488 6,090,012 3.0	753,607	36 1,162,036 989,673 2,890,881 2.9	93 659,613 622,644 784,247 1.3	528 410,680 253,040 578,530 2.3	1,002 1,472,588 1,212,483 3,332,942 2.7	39 107,752 79,429 169,857 2.1	95 314,495 273,027 857,302 3.1	560 632,509 540,301 1,547,072 2.9	310 389,700 358,458 912,760 2.5
40 41 42 43	sources used on land served by the organizations. acres served. Water delivered to farms. acre-feet per acre. acre-feet per acre.	106 1,264,886 1,055,518 2,172,038 2.0	15 116,422 112,274 465,809 4.1	23 146,494 133,175 468,635 3.5	70 1,034,026 841,753 1,354,100 1.6	87 340,549 82,866 159,622 1.9	143 206,161 161,625 285,534 1.8	3,507 3,507 3,007 7,057 2.3	9,506 9,506 20,076 2.1	103 149,432 107,793 194,759	34 43,716 41,319 63,642 1.5

Summary Table 10 (Part 2 of 3).—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Continued

				Gulf of Calif	fornia (IV)			
Ì					Colorsdo	River		
					Cx	lorado River a	bove Lees Ferry	-
Item (For definitions and explanations, see text)	Total	Cila River excluding Colorado River	Total	Below Lees Ferry excluding Gila River	Total	Excluding Green and Cunniaon Rivers	Green River	Cumnison River
		(IV-A and IV-C)		(IV-B)		(IV-D)	(IV-E)	(IV-F)
TYPE OF SERVICE, 1959								
All water directly from surface and								
ground water sourcesorganizations Total water conveyedacre-feet. Water deliveredacre-feet. To farm and residential	1,291 15,078,802 12,591,135	97 2,136,785 1,534,915	1,194 12,942,017 11,056,220	8,060,187 7,350,589	1,100 4,881,830 3,705,631	2,360,037 1,666,331	257 1,391,913 1,101,842	1,131 937
users onlyorganizations acre-feet	1,256 3,895,212	95 583,733	1,161 3,311,479	89 686,526	1,072 2,624,953	499 1,153,002	249 949,917	522
To farm and residential users and other irrigation organizationsorganizations	33	1	32	14	18	8	4	
Water to farm and residential usersacre-feet Water to other irrigation	1,435,123	649,000	786,123	38,059	748,064	338,792	25,324	383
organizationsacre-feet To other irrigation organizations	312,031	88,300	223,731	10,605	213,126	169,642	12,678	30
onlyorganizations	6,861,769	213,882	6,647,887	6,618,399	29,488	4,895	23,923	
Part of water from other organizationsorganizationsorganizations	58 6,080,339	5 280,408	53 5,799,931	6 5,267,480	47 53 2,4 51	30 146,479	5 364,545	21
From surface and ground water sourcesacre-feet	1_1,895,771	199,408	2,095,179	1-2,200,415	407,015	46,907	343,978	16
From other irrigation organizationsacre-feet	7,976,110	81,000 230,152	7,895,110 4,839,476	7,769,674 4,367,368	125,436 472,108	99,572 96,787	20,567 356,669	18
Water deliveredacre-feet To farm and residential users onlyorganizations	5,069,628	230,152	4,029,470	4,367,366	472,100	29	4	
To farm and residential users and other	525,660	230,152	295,508	100,419	195,089	96,787	88,228	10
irrigation organizationsorganizations Water to farm and residential	6	•••	6	2	4	1	213,163	6
water to other irrigation	2,703,409		2,703,409	1	219,331 57,688		55,278	
organizationsacre-feet To other irrigation organizations onlyorganizations	1,840,559		1,840,559	1,782,871	<i>51</i> ,000			1
acre-feet	:::		:::					
All of water from other organizations. organizations. Total water conveyed	39 1,385,913 1,174,454	221,182 137,688	36 1,164,731 1,036,766	9 979,839 882,166	27 184,892 154,600	14 78,485 61,158	71,312 60,496	35 32
To farm and residential users onlyorganizations	36 938,972	3 137,688	33 801,284	8 681,853	25 119,431	13 32,990	60,496	25
acre-feet To farm and residential users and other irrigation organizationsorganizations	938,972	137,688	801,284	001,053	2	32,550		
Water to farm residential usersscre-feet	184,297		184,297	159,154	25,143	24,648		
Water to other irrigation organizationsacre-feet	51,185		51,185	41,159	10,026	3,520		
To other irrigation organizations only organizations acre-feet		:::		:::		:::		
No water conveyedorganizations			13		13	5	1	
WATER FROM OTHER SOURCES								
Organizations reporting NO water from other sources used on land served by the organization	1,191	74	1,117	105	1,012	497	237	
acrea served acrea irrigated Water delivered to farmsacre-feet	2,090,620 1,845,449 7,611,292	160,020 124,262 469,924 3.8	1,930,600 1,721,187 7,141,368 4,1	736,834	1,142,564 984,353 3,356,772 3.4	529,641 441,238 1,410,592 3,2	373,813 328,565 1,053,160 3.2	239 214 893
acre-feet per acre Organizations reporting water from other sources used on land served by the	4.1						26	
organizationorganizations acrea served acrea irrigated	185 724,649 1,130,552	30 372,719 340,072	155 351,930 790,480	78,807 526,797	273,123 263,683 622,117	54 90,651 94,103 192,471	151,608	34 23 52
Water delivered to farmsacre-feet acre-feet per acre	2,007,143	1,063,384	943,759 1.2	321,642 0.6	622,117 2.3	192,471	2.5	"

Water was transferred to the basin and released to catural atream channels in excess of the quantity of surface water withdrawn by irrigation organizations. The cet effect was to increase the available surface water supply to the basin or State.

			Gulf of Mexico	excluding Mississ	sippi River (♥)		Mississippi	River (VI)
					Rio Grande River			
	Item (For definitions and explanations, see text)	Total	Mermentau River excluding Rio Crande River	Total	Below Fort Quitman, Texas	Above Fort Quitman, Texas	Total	Arkansas River
- 1			(V-A and V-D)		(V-B)	(Y-C)		VI-B)
	TYPE OF SERVICE, 1959							
2 3 4	All water directly from surface and ground water sources. organizations. Total water conveyed. scre-fect. Water delivered accession of a conveyed accession or a conveyed accession of a conveyed acce	773 4,892,947 3,698,059	252 1,860,830 1,534,893	521 3,032,117 2,163,166	87 1,205,194 883,091	434 1,826,923 1,280,175	1,882 14,204,429 10,611,001	345 1,538,063 1,213,266
5	users onlyorganizations acre-feet	746 2,916,087	251 1,394,328	495 1,521,759	79 569,912	416 951,847	1,776 7,190,173	329 774,143
7	To farm and residential users and other irrigation organizationsorganizations	25	1	24	7	17	87	15
, R	Water to farm and residential usersacre-feet	590,456	128,565	461,891	223,951	237,940	1,762,561	230,669
9	Water to other irrigation organizationsacre-feet	134,595	12,000	122,595	53,401	69,194	1,160,231	153,160
10	To other irrigation organizations onlyorganizations acre-feet	2 56,921	:::	2 56,921	35,827	21,094	14 497,936	1 55,294
11 12 13	Part of water from other organizations organizations. Total water conveyed acre-feet from surface and ground water	20 131,233	:::	20 131,233	9 65,985	11 65,248	87 1,267,515	7 206,425
14	sourcesacre-feet	66,111		66,111	55,856	10,255	432,020	126,711
15	organizationsacre-feet Water deliveredacre-feet To farm end residential	65,122 102,003		65,122 102,003	10,129 53,024	54,993 48,979	848,540 1,304,523	79,714 156,148
17	users onlyorganizations	18 62,774		18 62,774	7 13,795	11 48,979	74 424,874	16 32,489
1B	To farm and residential users and other irrigation organizationsorganizations Water to farm and residential	2		02,774	2,799	46,979	424,874	32,469
20	usersacre-feet Water to other irrigation	38,893		38,893	38,893		554,046	69,909
21	organizationsacre-feet To other irrigation organizations	336		336	336		296,927	53,750
22	onlyacre-feet	:::	:::	:::	:::	:::	28,676	:::
23 24 25 26	All of water from other organizations	29 126,830 99,119	13,045 12,611	28 114,830 86,508	11 79,435 57,472	17 35,395 29,036	230 1,222,136 985,091	44 182,490 163,203
27	users onlyorganizations	99,119	12,611	28 86,508	11 57,472	17 29,036	215 863,356	44 163,203
28	To farm and residential users and other irrigation organizationsorganizations Water to farm residential						15	
30	Water to other irrigation	•••			• • • • • • • • • • • • • • • • • • • •		65,976	
31	organizationsacre-feet To other irrigation organizations			•••			55,759	
32	onlyorganizations acre-feet	:::	:::	:::	:::		:::	:::
33	No water conveyedorganizations	4		4	1	3	29	2
,	WATER FROM OTHER SOURCES							
35 36 37 38 39	Organizations reporting No water from other sources used on land served by the organization	741 2,201,659 1,564,726 3,219,303 2.1	252 824,797 459,348 1,449,412 3.2	490 1,383,382 1,109,557 1,772,715	96 688,872 544,371 731,315	394 697,510 565,186 1,041,400 1.8	1,767 4,086,292 3,509,388 8,468,300 2.4	368 575,313 497,800 1,018,344 2.0
40 41 42 43	sources used on land served by the organizations. acres served. acres irrigated. Water delivered to farms. acre-feet per acre.	79 375,863 227,794 402,734	2 37,500 8,435 61,594 7.3	77 338,363 219,359 341,142	10 110,235 94,303 166,209	67 228,128 125,056 174,933	405 1,068,195 988,172 2,044,203 2.1	27 106,709 93,523 247,196

Summary Table 10 (Part 2 of 3).—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Continued

\exists					Mississippi	River (VI)-	-Continued				
- 1						issouri River					
		-	Below		Platte River		Yel	lowstone Riv	er		
	Item (For definitions and explanations, see text)	Total	Three Forks, Montana excluding Flatte and Yellow- stone Rivers (VI-C)	Total	Excluding South Platte River (VI-D)	South Platte River above Gaging Station near Paxton (VI-E)	Total	Excluding Big Horn River	Big Horn River	Headwaters above Three Forks, Montana (VI-H)	Hudson Bay (Red River of the North)
ı	WALLE OF CERTITOR 1050								-		
1 2 3 4	All water directly from surface and ground water sources	1,537 12,666,366 9,397,735	189 1,536,314 1,111,149	462 4,713,921 3,364,530	227 2,755,578 1,788,299	235 1,958,343 1,576,231	599 4,863,439 3,746,447	395 2,255,753 1,738,297	204 2,607,686 2,008,150	287 1,552,692 1,175,609	2 (D) (D)
5	acre-feet To farm and residential users and other	6,416,030	956,261	1,723,935	1,127,701	596,234	2,672,099	1,299,411	1,372,688	1,063,735	(D)
7	irrigation organizationsorganizations Water to farm and residential	72	6	38	5	33	20	9	11	8	
8	usersacre-feet	1,531,892	61,273	728,794	387,364	341,430	715,754	327,526	388,228	26,071	
9	organizationsacre-feet To other irrigation organizations	1,007,071	93,615	497,498	262,856	234,642	330,155	103,635	226,520	85,803	
10	onlyorganizations acre-feet	13 442,642	:::	414,303	10,378	403,925	5 28,339	7,625	20,714	:::	:::
11 12 13	Part of water from other organizations	30 1,061,090	5 50,465	47 743,719	44,975	43 698,744	22 247 , 099	9 77,854	13 169,245	19,807	:::
14	sourcesacre-feet	305,309	17,938	241,660	27,389	214,271	31,576	51,906	1-20,330	14,135	
15	organizations acre-feet	768,826 1,148,375	63,574 34,736	481,883 924,501	17,586 316,936	464,297 607,565	217,697 173,691	28,238 62,551	189,459 111,140	5,672 15,447	:::
17	users onlyorganizations	58 392,385	5 34,736	28 186,108	36,917	25 149,191	20 163,294	52,154	13 111,140	8,247	:::
18	To farm and residential users and other irrigation organizationsorganizations Water to farm and residential	19		16	1	15	2	2		1	
20	usersacre-feet Water to other irrigation	484,137		476,560	280,019	196,541	4,277	4,277		3,300	
21	organizationsacre-feet To other irrigation organizations onlyorganizations	243,177		233,157		233,157	6,120	6,120		3,900	·
22	acre-feet	28,676		28,676		28,676					
23 24 25 26	All of water from other organizations. organizations. Total water conveyed	186 1,039,646 821,888	3 61,088 44,517	157 747,510 601,539	29 255,648 166,768	128 491,862 434,771	16 147,017 118,992	10 89,142 72,428	57,875 46,564	10 84,031 56,840	::
27	users onlyorganizations acre-feet	700,153	44,517	142 479,804	29 166,768	313,036	16 118,992	72,428	46,564	56,840	:::
28 29	To farm and residential users and other irrigation organizationsorganizations Water to farm residential	15		15		15					
30	Water to other irrigation	65,976		65,976		65,976					i
31	organizationsacre-feet To other irrigation organizations	55,759		55,759		55,759					
32	onlyorganizations acre-feet	:::	:::	:::	:::		:::	:::	:::	:::	:::
33	No water conveyedorganizations	27	8	8	3	7	9	8	1	2	
	WATER FROM OTHER SOURCES										
34 35 36 37 38 39	Organizations reporting 80 water from cother sources used on land served by the organization	1,399 2,265,801 3,011,588 3,328,897 1.1	172 711,678 538,072 982,915	443 1,554,123 1,361,341 2,345,982	242 1,058,280 906,804 1,606,938 1.8	201 495,843 454,537 739,044 1.6	595 1,070,586 963,861 3,477,324 3.6	478,823	214 536,185 485,038 1,902,480 3.9	189 174,592 148,314 643,735 4.3	(D (D) (D)
40 41 42 43	Organizations reporting water from other sources used om land served by the organization	381 776,244 741,432 1,116,733 1.5	23 54,594 39,704 106,628 2.7	208 721,650 701,728 1,010,105 1,4	14 58,963 78,933 110,196	194 662,687 622,795 899,909 1.4	34 46,857 36,398 171,456 4.7	32,231	7 8,426 4,167 10,349 2.5	116,819	

Water was transferred to the basin and released to natural stream channels in excess of the quantity of surface water withdrawn by irrigation organizations. The net effect was to increase the available surface water supply to the basin or State.

=					North Pacif	ic Coast (I)		
						Columb	ia River	
	Item (For definitions and explanations, see text)	18 States, total	Total	Excluding Columbia River	Total	Below Snake River	Above Snake River excluding Yakima River	Yakima River
				(I-A)		(I-B)	(I-C)	(I-D)
11 22 33 44 55 66 77 88 99 10 11 12 13 14 15 16 17 18 19 20 20 20 20 20 20 20 20 20 20 20 20 20	scres Irrigated 5.0 to 5.9 scre-feet per screorganisations 6.0 to 6.9 scre-feet per screorganisations 7.0 to 7.9 scre-feet per screorganisations 8.0 to 9.9 scre-feet per screorganisations 8.0 to 9.9 scre-feet per screorganisations 8cres Irrigated 10.0 or more scre-feet per screorganisations 8cres Irrigated	1,262,270 3,179,906 1,691 2,639,26 1,307 2,111,663 2,000,024 2,000	59 33,295 221,294,569 308 221,760 42,190 1,147,960 1,147,960 1,177 451,770 391,471 99,97 95,237 95,2	8 780 19 2,991 24 27,362 30 9,504 6,038 6,038 5,7 7 5,304 5,202 3,208 2,708 2,708	51 32,515 193 252,178 252,178 40,398 276 452,983 1,41,922 170 464,64 61,23 383,372 99,03 92,03 92,13 118,717 55,52 54,626	20 20 18,440 31 12,407 43 23,828 67,713 18 10,689 1,189 3,388 21 10,187 11 11 11 11 11 11 11 11 11 11 11 11 11	111 3,530 47 115,543 69 45,882 63 61,194 222,213 10,343 1,184 117,894	1,500 7,365 13 13,002 14 113,103 107,264 15 3,989 1,711 10 3,948 1,300
21 22 23 24 25 26 27 28 29 30 31 32 33 34 35		164 2,811 6,672 2,459 14,754 28,311 972 50,933 60,896 61,868 81,392 52 141,388	26 697 1,653 3,677 3,677 1,85 6,167 1,109 64 10,963 33 21,067 19 38,327	244 111 41 235 21 393 7 366 5 984 2 2 975 1 1 2,332	26 653 1,542 598 3,426 3,426 5,744 1181 9,609 9,984 36 20,092 18 35,995	2 84 206 75 4300 46 790 24 1,401 7 1,295 6 3,428	4 211 488 115 664 9 99 878 43 2,118 15 2,659 8 4,270 5	3 43 105 25 134 209 116 626 6 3,138 4 8,785
36 37 38 39 40 41 42 43 44 45 46 47 48 49 50	Size of organization (acre-feet of water delivered directly to farms): None	164 1,982 277,411 2,310 1,348,478 2,046 3,631,596 7,577,594 9,065,371 216 10,699,341 79 21,946,756	26 430 64,630 317,595 473 844,926 369 1,994,216 2,433,914 2,897,781 28 8,963,142	43 4,841 37 21,327 19 29,777 11 50,492 10 145,813 1 46,651	26 387 59,789 493 296,268 815,149 358 1,943,924 1,943,924 2,288,101 56 2,851,130 28 8,963,142	2 70 10,614 79 45,819 93,069 24 133,319 11 205,834 5 218,955 2353,937	4, 129 18,961 145 84,755 108 183,856 55 291,362 13 192,981 1,060,000	3 177 3,080 32 16,865 34 59,418 20 113,051 6 92,321 5 234,621 4
51 52 53 54 55 56 57 58 59 60 61 62 63 64 65	Sire of organization (sere-feet of water conveyed): None	80 1,707 249,223 2,927 1,245,557 2,059 3,777,792 8,634,680 11,400,356 11,400,366 16,003,825 16,003,825 10,44,217	15 358 55,113 509 298,442 42,205 42,205 42,205 42,205 42,205 42,205 42,205 42,205 42,924,685 3,979,722 40 14,054,166	38 4,103 38 19,776 24,411 57,807 8 130,530 125,398	15 320 51,010 474 278,666 447 787,794 392 2,066,765 170 2,794,155 73,854,324 40	2 62 9,388 81 46,403 79,683 153,473 12217,013 8425,507 2 518,509	2 15,486 15,486 143 84,616 197,658 65 355,180 255,180 25,705 22,1,809,972	2 13 2,458 30 17,617 32 61,829 23 114,611 11 149,862 6 336,950 4 1,934,769

SUMMARY 59

		North Pac	ific Coast (I)—	Continued		South	Pacific Coas	(11)
		Colu	mbia River—Comt	inued				
Item (For definitions and explanations, see text)	Total	Below Weiser,	Snake River Weiser, Idaho to King Hill, Idaho	King Hill, Idaho to American Falls	Above American Falls	Total	Klamath River	Klamath River to Santa Maria River excluding Central Valley
		(I-E)	(I-F)	(1-6)	(I-H)		(A-II)	(II-B)
WATER DELIVERED FER ACRE Organisations reporting 80 water from other sources used on same land: 0.1 to 0.9 acre-feet per acreorganisations 2.0 to 2.9 acre-feet per acreorganisations 3.0 to 3.9 acre-feet per acreorganisations 4.0 to 4.9 acre-feet per acreorganisations 5.0 to 5.9 acre-feet per acreorganisations 6.0 to 6.9 acre-feet per acreorganisations 6.0 to 6.9 acre-feet per acreorganisations 7.0 to 7.9 acre-feet per acreorganisations 8.0 to 5.9 acre-feet per acre	27,025 110,830 113,105 123,105 255,234 255,234 653,823 105 87,229,673 51,244 610,133 100,133 229,673	13 12,856 24,603 24,232 42,232 59 39,984 58 93,904 24 19,819 20 6,603 12 5,334 1,72 4,772 1,950	2,557 30,820 30,820 37,18,047 28,35,100 43,326,230 335,227 27,66,726 66,726 19,20,371 8,235	6,570 17 22,591 18,742 18,742 19,765 205,362 4 1,595 205,362 333,72 4,315 9 2,854	14, 5,042 38,38 32,816 44,078 40,34, 22,515 40,63,142 31,42	319,200 319,200 505,624 223 688,251 611,33 1,03 22,206 47 107,562 26 96,941 29,39,000 39,000 39,000	1 1,460	56 11,27 12,30 11 3,14 9 30
Size of organization (number of farmty): irrigation water users served directly): 1 to 3.	17, 315; 743, 383, 2,218, 239, 3,811, 103, 5,464, 4,538, 166, 9,611, 19,133	3 131 313 164 925 63 1,005 11 461 2 1,139 1	7 64 150 78 467 59 942 29 1,497 10 1,876 6 3,601 6 15,908	2 36 85 37 211 19 326 6 389 5 818 2 1,541 7,351	5 84 195 104 615 100 1,980 57 3,117 2,044 6 3,330 1,000	32 232 549 284 1,678 3,798 123 7,998 81 13,271 48 24,530 166,233	1 14 35 15 70 11 176 15 82 2 277 4 2,718	10 24 55 30
Size of organization (sere-feet of water delivered directly to fearms):	17 27,134 237 148,829 261 478,866 405,992 1,005,992 1,796,965 41 2,108,221 5,977,861	3 73 11, 313 107 67, 591 109 200, 988 77 344, 938 1 1 266, 653	28 485,616 10 573,202 9	2 19 3,333 27 14,834 26 45,516 18 98,726 8 154,674 5 220,915 6 2,735,676	5 43 6,213 59 35,967 69 124,233 107 604,222 53 937,693 27 1,367,844 1,363,480	32 389 47,319 247 134,988 148 268,121 682,128 87 1,540,353 2,651,654 24 4,524,182	1 3 557 4,628 15 28,779 15 89,450 211,176 3 173,655 2 295,670	1,7 3,0 4,8 5,6 82,4
Size of organization (acre-feet of where conveyed): None	9 23,678 220 130,030 252 448,624 1,443,500 129 2,161,575 2,633,034 9,790,916	2 2 55 8,953 62,764 105 188,466 188 278,713 76,947 1 498,271	38 21,364 50 94,825 70 359,180 597,544 15 664,505	1 1,964 1,964 15,903 26 45,937 18 95,582 11 174,481 6 312,576 4,350,567	1 39 7,092 49 30,399 71 120,276 98 547,555 64 1,110,837 1,676,583 3,464,165	7 356 45,008 2230 123,820 123,820 150 268,068 152 878,655 101 1,710,549 2,668,920 11,741,178	1 3 621 9 5,027 14 29,589 15 89,893 13 188,370 4 201,698 707,170	1

		South Pac	ific Coast (II)—Continu	ed		Gre	at Basin (II	1)	
		Central	Valley	,						
Item (For definitions and explanations, see text)	Total	Sacramento- San Joaquin Delta area, and Sacramento River (II-C and II-D)	San Joaquin River	San Joaquin Valley ahove San Joaquin River	Santa Maria River and Basins South	Total	Northwest Great Basin and Humboldt River	South Central	Bonneville Basin excluding Bear River	Bear River
		11-0)	(11-E)	(11-F)	(II-G)		III-B)	(111-0)	(111-D)	(III-E)
Organizations reporting 80 water from other sources used on sace lund: 0.1 to 0.9 acre-feet per acre	5 287,214 35 406,438 417,991 60 480,389 204,552 21 104,095 7 95,699 10 24,517 3 3,1,606	 15 66,35 186,709 21 161,692 166 82,931 197,754 4 95,468 9 37,721 23,901 21,066	6 249,722 274,533 345,882 116,371 2,375 1 250 1 540	287, 214 15 265, 37 16, 15 14, 89 14, 89 16 44, 51 10 3, 96 3, 96 3, 96 9, 96	40 30,926 132 73,862 138 103,418 92 27,640 6 13,033 1,913 1,913 6 6 515 5 3 273	73,011 214 273,851 406,420 406,220 272,176 103,36 30,93 30,93 318,866 13 12,377 13 12,215 66 2,666	7,973 16 15,824 43,435 12,200	2 630 132 29,524 29,524 29,524 29,52 30 30 132,394 13,375 11,335	355 32,558 1005 128,984 1433 152,947 1200 85,026 94,060 15,874 8 8 1,267 11 12,182 5 1,21 11,21 11,12	1,856 8. 99,21 99,21 17,234 47,856 40,757 1,386 11,11 11,387
SIZE OF ORGANIZATION										
Size of organization (number of farm irrigation water users served directly):										
None	12 56 132 79 461 81 1,385 56 2,755 38 6,671 27 13,249 11 54,514	9 17 43 32 182 29 441 19 1,014 21 3,378 12 5,950 4 7,693	1 30 10 64 12 218 7 301 6 1,051 5 2,167,7	3 27 59 39 229 41 726 30 1,440 13 2,492 10 5,132 32,365	14 156 367 176 997 149 2,336 78 4,084 37 6,020 16 8,255 3 5,719	21 214 508 336 1,959 318 5,322 173 9,075 76 12,711 27 13,618 1,404	15 36 20 98 5 75 1 40 1 114	5: 233 522 41 244: 18: 318 10 593 3 303 1 952 1	14 95 231 187 1,119 185 3,104 120 6,317 56 9,667 21 10,398	8 18 8 49 11 1,83 4 2,12 1 2,62 3,06
Size of organization (acre-feet of water delivered directly to farms):										
Once	12 39 4,178 51 31,351 62 112,935 80 448,299 57 1,030,782 42 2,477,99 18 4,108,951	9 3 496 13 9,075 27 46,107 33 182,045 283,398 483,398 22 1,321,572 8 1,535,620	1 6 606 2 1,158 5 9,842 17 95,505 11 191,979 10 570,994 8 2,450,787	3 30 3,076 36 21,118 30 56,986 30 170,749 20 381,545 12 701,939 5	14 329 40,809 180 95,942 68 121,545 26 144,379 11 215,916 1 119,561	21 221 33,017 346 207,342 313 541,537 203 1,083,542 48 767,304 11 375,047 3 1,175,486	4 477 14 8,409 14 23,572 7 32,693 2 40,500 	5 8 1,129 16 11,574 28 51,389 32 202,666 10 156,680 1 43,875 2 325,937	14 156 22,215 210 118,541 168 296,787 95 513,581 27 435,735 6 225,670 1	2 53 9,196 68,818 103 169,783 68 334,662 10 150,886 3 105,502
Size of organization (scre-feet of water conveyed): None	5 38 4,239 41 24,542 56 101,331 86,564 58 1,039,398 42 2,334,693	4 3 515 9 5,923 38,120 37 216,115 30 546,963 21 1,228,364	 6 635 2 1,258 5 11,086 15 89,598 11 185,862 10 644,540	1 29 3,089 30 17,361 29 52,125 34 188,851 17 306,573 13 595,776	1 300 38,631 174 91,274 75 129,102 477 267,049 23 399,310 6 280,969	9, 170 25,885 319 190,839 341 601,486 235 1,288,405 65 1,061,638 23 1,219,578	25,861 40,120 243,000 197,000	3 5 700 11 6,962 32 56,555 33 206,477 14 221,999	6 120 17,772 202 116,567 180 320,994 119 633,459 35 563,101 15 775,988	6,89° 9,58,29° 11:198,07° 7408,34° 1250,038° 297,844

				Culf of Cali	fornia (IV)			
					Colorad	o River		
					C	olorado River a	above Lees Ferry	
Item (For definitions and explanations, see text)	Total	Gila River excluding Colorado River	Total	Below Lees Ferry excluding Gila River	Total	Excluding Green and Gunnison Rivers	Green River	Gunnison River
	+	IA-C)		(IA-B)		(IA-D)	(IA-E)	(IV-F)
WATER DELIVERD PER AGE Organizations reporting no water from other sources used on same land; 0.1 to 0.9 acre-feet per acre organizations. acres irrigated. 2.0 to 1.9 acre-feet per acre organizations. acres irrigated. 3.0 to 3.9 acre-feet per acre organizations organizations organizations organizations organizations. 4.0 to 4.9 acre-feet per acre organizations acres irrigated. 5.0 to 5.9 acre-feet per acre organizations organizations.	65,962 214 275,421 224 270,742 169 121,116 265,554 124 683,602	66 3,319 52,330 13 54,174 13 5,215 14 37,396 14:	83 62,643 209 273,091 211 216,568 115,901 128 228,158 110 670,916	3,126 17 12,496- 15 10,465 20 7,199 119 51,593 10 613,251	77 59,517 192 260,595 196 206,103 136 108,702 176,565 100 57,665	45 37,045 95; 96,885 109,619 74 69,035 56 68,586 37 20,176	5,313 50 140,608 44 67,926 30 20,353 31 20,501 32 23,816	2 17,15 4 23,10 28,55 19,31 2 87,47 3
6.0 to 6.9 acre-feet per acre organizations. acree irrigated. 7.0 to 7.9 acre-feet per acre organizations. acree irrigated. 8.0 to 9.9 acre-feet per acre organizations acree irrigated organizations acree irrigated	57,000 51,000 51 25,135 59 61,243 49 19,674	1 200 1 60 3 6,710 4 2,172	56,800 50,500 25,075 56 54,533 45 17,502	7,418 6,596 5 21,435 3 3,255	33,098 42 18,479 51 33,098 42 14,247	25,170 13,604 18 6,236 22 11,525 18 8,527	23,206 22 32,206 10 6,755 7 10,697 2	13,57 1 3,57 1 5,48 2 10,87 2 5,33
Size of organization (number of farm irrigation water users served directly); None	26 590 1,401 883 2,192 214 3,302 123 6,797 42 6,490 20 10,128 4 11,801	1 23 57 25; 133 24 400 2c 1,023 6 997 4 1,558	25 567 1,344 358 2,059 190 2,902 103 5,774 3,6 5,493 1,6 8,570 2	2 15 36 28 222 372 31 1,765 8 1,316 3 1,327 1	23 552 1,308 330 1,831 168 2,530 2,009 28 4,177 13 7,243 1,1000	10 245 583 157 882 80 1,271 42 2,184 20 2,838 6 2,775 1	5 121 296 65 351 49 721 17 987 5 913 6 2,806	18 42 10 59 59 1 83 56 1,666
delivered directly to farms :	26 309 40,57% 392 234,156 662,104 208 1,086,747 71 1,081,816 25 1,352,089 1,252,089 1,252,089	18 1,883 28 17,189 21 36,967 16 91,230 11 183,195 7 388,576 814,268	25 291 38,691 364 216,967 338 625,137 192 995,517 60 888,621 18 963,513 94,353,251	27 4,084 25 15,186 34 64,938 46,710 62,180 128,036 7 3,791,674	23 264 34,607 339 201,781 304 560,199 183 948,807 15 836,441 15 835,477 2 561,577	10 143 19,803 159 91,484 142 261,659 75 404,637 7 416,793	5 20 3,608 75 46,421 77 142,968 303,873 23 303,271 8 418,684 1 1213,043	100 11,19 100 63,874 8,156,893 44 240,29 124,48:
Size of organization (acre-feet of water conveyed): None	14 276 38,995 379 232,643 352 652,151 238 1,210,308 4,1,456,465 30 1,787,476 19 17,022,918	18 2,378 22 14,149 23 41,396 16 76,825 13 184,738 488,348 5 1,830,541	14 258 36,217 357 218,494 329 610,755 222 1,133,483 81 1,277,727 1,299,128 14 15,192,377	23 3,864 23 13,913 35 62,805 12 52,986 5 75,641 166,744 9	14 235 32,333 20,581 247,950 210 1,080,497 76 1,196,086 1,132,384 51,557,562	5 124 18,448 168 101,945 130 244,716 84 413,569 37 585,038 10 557,711 3 828,687	2 17 3,355 67 41,900 149,971 27 414,850 9 9574,673 1268,441	7 94 10,550 99 60,736 85 154,816 61 305,221 196,198 1 460,434

		Gulf of Mexico	excluding Mississ	ippi River (V)		Mississippi	River (VI)
			I	Rio Grande River			
Item (For definitions and explanations, see text)	Total	Mermentau River excluding Rio Grande	Total	Below Fort Quitman	Above Fort Quitman	Total	Arkansas River excluding Mississippi River
		(V-A and V-D)		(V-B)	(V-C)		VI-B)
WATER DELIVERED FER ACRE Organizations reporting 80 water from other sources used on same land: 0.1 to 0.9 scre-feet per acreorganizations. 1.0 to 1.9 acre-feet per acreorganizations. 2.0 to 2.9 acre-feet per acreorganizations. 3.0 to 3.9 acre-feet per acreorganizations. acres irrigated. 4.0 to 4.9 acre-feet per acreorganizations. acres irrigated. 5.0 to 5.9 acre-feet per acreorganizations. acres irrigated. 7.0 to 7.9 acre-feet per acreorganizations. acres irrigated. 7.0 to 7.9 acre-feet per acreorganizations. 8.0 to 9.9 acre-feet per acreorganizations. 8.0 to 9.9 acre-feet per acreorganizations. 10.0 or more acre-feet per acreorganizations.	325,064 240 514,983 307,496 307,496 20,599 32 116,437 11 38,646 7,804 1,900 3 1,450 475	30,933 66,929,23 129,723 129,165 52,165,229 165,229 36,841 3,845 2 1700 	294,131 188,551 489,551 178,291 7 85,370 16 55,325 4 1,705 3,959 3,959 3,959 3,1,555	97,610 97,610 99,471 1,922 48,197 1,525 6 1,620 1,620 2,623 1 380 1 1 300 2 2,423	196, 521 142, 142, 142, 143, 143, 143, 143, 143, 143, 143, 143	137 457,987 1,344,929 811,693 299,398,489 107,560 107,560 108,2340 82,340 33,022 46,41,000 31,744	71,65 228,45 122,91 32,44 32,44 12,54 13,47 13,47 1,36 2,65
Size of coganization (number of form	77 209 495 244 1,366 173 2,751 1.39 6,768 3,442 8 5,077 12 26,999	 110 250 90 467 27 444 17 933 6 1,061 4 2,497	77 99 245 154 899 146 6 2,307 123 5,892 28 4,381 ,4 2,580 12 26,999	2 13 30 22 137 26 471 24 1,226 10 1,931 3 2,210 8	5 86 215 132 762 120 1,836 99 4,666 18 2,450 1 370 4	58 868 2,063 579 3,224 406 6,778 200 10,685 7 12,014 27 11,559 3,027	1 3 1 5 1,4 1,6 1,9 3,2
Size of organization (acre-feet of water delivered directly to furms): None	77 273 38,713 278 150,725 132 235,062 240,279 31 527,878 24 1,296,283 1,013,997	20,322 10,322 104 56,731 47 89,244 25 131,290 165,487 13 717,102 340,828	7 221 28,391 174 93,994 86 148,642 49 264,989 362,391 11 579,181 4 4 673,169	2 32 4,229 19 9,616 22 42,887 12 61,014 10 167,084 10 499,479 1 113,215	5 189 24,162 155 84,378 64 105,755 203,975 11 195,307 79,702 559,954	58 360 55,004 517 310,130 623 1,109,683 2,352,631 169 2,770,928 2,657,854 101,257,837	1 21,0 1 62,7, 113,9, 250,7; 299,44 374,9;
Size of organization (scre-feet of water conwayed): None::::	5 36,998 280 197,518 131 303,283 85 488,734 746,282 29 1,665,049 10 1,888,464	1 48 9,694 106 60,880 45 157,238 23 120,946 14 337,309 13 777,552 4 518,664	201 27,260 174 96,638 86 146,045 63 341,967 23 408,973 16 887,497 6	1 3,888 21 10,973 16 29,283 17 84,984 142,721 14 824,550 2 254,215	3 173 23,372 153 85,665 70 116,762 46 256,983 14 266,252 62,947 4,115,585	33 297 47,523 481 294,655 613 1,123,059 2,689,456 2,689,456 213 3,685,795 85 4,703,174 21 4,318,417	1 20,3; 54,9 135,1(292,2; 387,1; 577,78

				diseissippi	River (VI)-	Continued				
				M1	ssouri River					
		Below Three	P	Latte River		Yell	owstone Rive	r	1	Hudson Bay
Item (For definitions and explanations, see text)	Total	Forks, Montana, excluding Platte and Yellow- etone Rivers	Total	Excluding South Platte River	South Platte River above Gaging Station near Paxton	Total	Excluding Big Horn River	Big Horn River	Headwaters above Three Forks, Montana	(Red River of the North)
		(VI-C)		(AI-D)	(VI-E)		(VI-F)	(41-0)	(41-11)	(721)
WATER DELIVERED PER ACRE										
rganizations reporting NO water from other sources used on same land:							12	19		
0.1 to 0.9 scre-feet per screorganizations	94 386,296	85,924	36 274,629	170,306	18	31 19,981	4,802	15,179	5,762	
1.0 to 1.9 scre-feet per screorganizations	362	71	174	88 480,451	86 235,115	95 97,344	73,486	23,858	12,030	
scres irrigated 2.0 to 2.9 scre-feet per screorganizations	1,125,861 335	300,921 39	715,566	56	64	152	107	45 124,523	24 34,640	
scree irrigated	688,774 252	83,726 20	250,279 65	161,805	88,474 19	320,129 141	195,606 77	64	26	
acres Irrigated	366,081	40,944	77,761	60,998 12	16,763	223,391 85	102,504	120,887	23,985 17	
4.0 to 4.9 scre-feet per screorganizations scres lrrigsted	130 160,817	13,966	17,324	12,134	5,190	114,663	38,998 18	75,665	14,864	
5.0 to 5.9 acre-feet per acreorganizations acres irrigated	89 129,500	4,468	14,372	10,430	3,942	79,653	15,401	64,252	31,007	
6.0 to 6.9 scre-feet per screorganizations	51	3	9	6,480	1 250	50,169	18,768	31,401	8,957	
scres irrigated 7.0 to 7.9 scre-feet per screorganizations	68,861 28	3,005 1	6,730 1	1		12	7,014	21,023	5,680	
acres irrigated 8.0 to 9.9 acre-feet per acreorganizations	36,685 36	1,568	1,400	1,400 4		28,037 16	9	7	12	
scres irrigsted	37,593 22	900	3,110	2,800	310	26,659 6	18,409 6	8,250	6,924 14	
10.0 or more scre-feet per screorganizations scres irrigsted	11,120	2,650	170		170	3,835	3,835	• • • •	4,465	
SIZE OF ORGANIZATION										
Size of organization (number of farm										
irrigstion water users served directly): Noneorganizations	55	10	26	6	20	17	14	3	184	
1 to 3organizations	716	80	192 461	135 322	57 1.39	260 619	166 401	94 218	431	
water users 4 to 9organizations	1,700 476	51	143	48	95	215	142 784	73 398	67 362	
water users 10 to 29organizations	2,690	281	865 168	252 32	613 136	1,182	68	24	42	
water users	5,342	474 23	2,754	504 21	2,250	1,481	1,100	381 14	633 8	
30 to 99organizstlons water users	9,038	1,199	5,289	1,283	4,006	2,136	1,305	831	414	
100 to 299organizations water users	10,082		37 5,638	14 2,149	3,657	3,241	1,169	2,072		•
300 to 999organizations	19	5	10	2,651	2,020	1,585	338	1,247	:::	
water users 1,000 or moreorganizations	8,313		4,671	2						
water users	3,027	`l	3,027	3,027						
Size of organization (acre-feet of water delivered directly to farms):							l	,	١,	
Noneorganizations	55 210	10 33	24 73	6 20	20 53	17 84	44	40	20	
1 to 299 scre-feetorganisations scre-feet	34,003	4,719	11,476	3,799	7,677	14,255	7,810 118	6,445	3,553 71	
300 to 999 acre-feetorganizations	247,405	29,178	73,833	27,789	46,044	102,502	74,042	28,460	41,892	
1,000 to 2,999 acre-feetorganizations	558 995,777	54	214 388,760	92 168,093	122 220,667	188 328,544		107,028	182,456	
3.000 to 9.999 acre-feetcrganizations	389	27	163	61	102 533,905	121 664,317	86	186,070	78 398,818	
acre-feet 10,000 to 29,999 acre-feetorganizations	2,101,879 151	. 24	899,919 58	366,014 25	33	40	29	160,937	29 481,669	1
acre-feet 30,000 to 99,999 acre-feetorganizations	2,471,440	455,179	935,489	411,737	7	599,103 24	6	18	1	
acre-feet	2,282,92		786,359	518,175	306,908	1,195,199	. 2	923,169		Ί
100,000 or more acre-feetorganizations acre-feet	1,115,118	110,007	260,251	260,251		744,860		500,720	'	
Size of organization (acre-feet of water conveyed):								١,		
Noneorganizations	31 16	2 9 2 27	11 55	14	41	65	34	31	15	
1 to 299 scre-feetorganizations acre-feet	27,19	3,807	9,753	2,921		11,018	6,063	4,955	63	3
300 to 999 acre-feetorganizations acre-feet	239,68	26,999	113 69,192	26,002	43,190	104,198	70,615	33,583		
1,000 to 2,999 acre-feetorganizations	987,89	52	196 358,360	156,634	201,726	186 343,307	218,570	124,737	193,883	3
3.000 to 9.999 scre-feetorganizations	43.	5 33	186	68	118	133	95	226,274	462,212	2
acre-feet 10.000 to 29.999 acre-feetorganizations	2,397,20	2 25	73	31	42	60) 43	11	7 34	- 1
acre-feet 30,000 to 99,999 acre-feetorganizations	3,298,67	8 481,718	1,270,245	535,198	. 21	23	3 [] 7	16	5 8	8
acre-feet	4,133,43	6 680,747		591,565	1,158,599) II 3	1 6	5	.
100,000 or more acre-feetorganizations	3,859,06	8 1 1 390,911	1,784,910					1,157,27	5]	- 1

D Data not shown to avoid disclosure of information for individual organizations.

Summary Table 11.-NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY STATES: CENSUSES OF 1959 AND 1950

-										
	Item (For definitions and explanations, see text)	18 State total	Arizona	California	Colorado	Idaho	Kenses and Oklahome	Louisiena	Montana	Nebraska
1 2	Total acres irrigated in Census year1959	31,222,967 25,451,176	1,152,450 979,114	7,395,570 6,598,839	2,684,757 2,943,895	2,576,580 2,167,879	959,733 185,201	484,850 597,966	1,874,520 1,808,576	2,077,926 887,239
3	Irrigation organizationsorganizations 1959	8,749 10,491	155 163	1,075 1,506	1,933 2,302	927 1,064	16 13	203 321	1,050 1,234	68 68
5	Service area, 1959: Farm area reported served by organizationsacres 1959	21,165,254	766,448	5,293,986	3,040,053	2,482,113	155,047	297,471	1,642,968	858,969
6	Farm area reported irrigated by organizationsacres 1959	17,700,841	643,846	4,184,482	2,669,677	2,299,457	106,468	185,539	1,347,197	706,339
7	Water users served, totalwater users 1959	1,612,111	43,729	1,152,970	43,642	81,467	1,105	2,946	17,181	9,259
8	Farm irrigation water userswater users 1959	383,654	12,555	116,037	35,051	43,525	1,104	2,946	14,773	9,225
9	Residential water userswater users 1959	1,204,339	27,727	1,018,384	8,449	37,743	·		2,395	34
10	Other water userswater users 1959	24,118	3,447	18,549	142	199	1		13	
	LAND IRRIGATED BY SOURCE OF WATER, 1959									
11	Ground water sourcesacres	14,011,307	772,353	3,992,290	500,174	452,876	823,171	263,482	34,015	1,445,029
12	Surface water sourcesacres	17,211,660	380,097	3,402,780	2,184,583	2,123,704	136,562	221,368	1,840,505	632,897
13	WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959									
14	Total entering conveyance systems in basinorganizations acre-feet	8,668 72,997,259	155 3,558,266	1,066 17,321,855	·1,906 7,705,684	920 14,214,626	14 237,995	203 617,850	1,044 5,973,077	68 2,006,735
15 16	From another drainage basinorganizations acre-feet	:::	1 299,479	2 387,033	4,038	11 140,305	31,047	:::	2,786	550 ,5 15
17	From drainage basin numberD. B. No	•••								
18 19	From natural sources within basinorganizations acre-feet	7,994 72,997,259	146 3,258,787	9 6 8 16,934,822	1,701 7,701,646	783 14,074,321	14 206,948	203 617,850	1,017 5,970,291	62 1,456,220
20 21	Surface waterorganizations acre-feet	6,984 68,685,789	1,991,449	364 15,276,039	1,692 7,670,472	734 13,527,060	14 206,948	68 516,572	1,005 5,922,639	62 1,452,443
22 23	Ground waterorganizations acre-feet	1,266 4,311,470	63 1,267,338	688 1,658,783	24 31,174	69 547,261		148 101,278	19 47,652	3,777
24	From other organizations in the basin	1,123	14	219	295	191	1		41	4
25	acre-feet	18,644,449	1,003,876	11,546,796	1,432,394	2,511,850	55,294		261,813	87,111
26 27	Total leaving conveyance systemsorganizations acre-feet	8,668 72,997,259	3,558,266	1,066 17,321,855	1,906 7,705,684	920 14,214,626	237,995	203 617,850	1,044 5,973,077	68 2,006,735
28 29	Conveyance loss in basinorganizations acre-feet	7,238 15,847,148	925,506	3,412,068	1,767 1,433,931	841 2,948,184	71,773	170 50,046	979 1,484,101	67 879,994
30 31	Conveyed to another drainage basinorganizations acre-feet	:::	7,940	302,779	15,427	12 145,657			100,000	31,047
32	To drainage basin numberD. B. No									
33 34	Delivered for use in the basinorganizations acre-feet	8,604 57,150,111	153 2,624,820	1,046 13,607,008	1,893 6,256,326	911 11,120,785	13 166,222	203 567,804	1,041 4,388,976	66 1,095,694
35 36	To ferm irrigation water usersorganizations acre-feet	8,585 54,471,479	153 2,487,199	1,039 12,350,452	1,888 5,943,099	911 10,884,661	13 162,301	203 567,804	1,041 4,333,721	66 1,095,537
37 38	To residential water usersorganizations acre-feet	998 1,607,639	24 69,516	237 828,036	130 167,474	107 220,313	•••	:::	30 42,141	1 157
39 40	For other useorganizationsacre-feet	296 1,070,993	10 68,105	83 428,520	50 145,753	29 15,811	1 3,921	:::	9 13,114	
41	Delivered to other irrigation organizations delivering	411	5	96	118	76	,		26	
42	acre-feet	18,644,449	1,003,876	11,546,796	1,432,394	2,511,850	55,294		261,813	87,111
43	Average delivery of irrigation water per acre irrigated as reported by organizationsacre-feet	3.1	3.9	3.0	2.2	4.7	1.5	3.1	3.2	1.6
44	NEW CAPITAL INVESTMENT, 1950-1959 Expenditures for additional new works and equipment for irrigation and drainage, Jan. 1, 1950-Dec. 31, 1959	4,177	76	487	903	382	11	109	514	43
45	dollars	1,039,593,875	62,924,613	495,970,922	59,837,605	24,527,859	42,311,394	2,054,686	24,240,701	13,839,550

Summary Table 11.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY STATES: CENSUSES OF 1959 AND 1950—Continued

=										
	Item (For definitions and explanations, see text)	Nevada	New Mexico	North Dekota	Oregon	Soutb Dakota	Texas	Utah	Washington	Wyoming
								:		
1 2	Total acres irrigated in Census year	542,976 722,896	731,835 691,476	47,656 35,759	1,384,284 1,337,517	115,629 84,356	5,655,638 3,150,527	1,061,683 1,166,972	1,006,969 618,129	1,469,911 1,474,835
3	Irrigation organizationsorganizations 1959	116 157	447 620	12 6	650 755	25 24	103 122	984 1,058	350 441	686 693
5	Service area, 1959: Farm area reported served by organizations	312,290	462,200	44,958	903,222	89,454	1,399,753	1,300,483	948,932	1,166,907
6	Farm area reported irrigated by organizationsacres 1959	263,005	366,086	39,849	846,182	83,984	943,818	1,109,620	847,752	1,057,540
7	Water users served, totalwater users 1959	3,059	23,768	234	33,437	759	33,827	90,952	63,429	10,347
8	Farm irrigation water userswater users 1959	2,646	20,828	234	17,712	715	24,588	43,001	29,752	8,962
9	Residential water userswater users 1959	408	2,910		14,690	44	9,124	47,519	33,539	1,373
10	Other water userswater users 1959	5	30		1,035		115	432	1.38	12
	LAND IRRIGATED BY SOURCE OF WATER, 1959	102,735	445,652	973	198,941	18,959	4.634.135	157,999	133,903	34,120
11	Ground water sourcesacres Surface water sourcesacres	440,241	286,183	46,683	1,185,343	96,670	1,021,503	903,684	873,066	1,435,791
12	WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959	,		,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		, ,			
13	Total entering conveyance systems in basinorganizations acre-feet	115 1,068,254	446 1,419,633	9 108,724	646 4,182,706	24 169,283	103 2,671,746	978 3,648,089	347 4,922,092	675 4,900,254
15 16	From another drainage basinorganizations	11,240	1,903	100,000	3 28,647	3,200	:::	91,394	67,703	10,320
17	From drainage basin number									• • •
18 19	From natural sources within basinorganizations acre-feet	87 1,057,014	1,417,730	8,724	642 4,154,059	23 166,083	92 2,671,746	863 3,556,695	322 4,854,389	638 4,889,934
20 21	Surface waterorganizations acre-feet	81 1,026,055	428 1,372,752	8,724	631 3,891,300	23 166,083	80 2,638,564	754 3,401,225	303 4,733,940	632 4,883,524
22 23	Ground waterorganizations acre-feet	7 30,959	26 44,978	•••	18 262,759		19 33,182	152 155,470	120,449	6,410
24 25	From other organizations in the basinorganizations receiving acre-fect	27 189,781	18 39,971		19 278,847		19 100,899	179 557,722	34 62,388	62 515,707
26 27	Total leaving conveyance systemsorganizations acre-feet	115 1,068,254	1,419,633	108,724	646 4,182,706	24 169,283	103 2,671,746	978 3,648,089	347 4,922,092	675 4,900,254
28 29	Conveyance loss in basinorganizations acre-feet	107 206,933	423 492,142	36,802	499 730,281	20 69,485	80 470,139	808 466,721	261 1,153,487	653 1,015,555
30 31	Conveyed to another drainage basinorganizations acre-feet	25 , 999	:::		503,598			13,355	4,364	15 579,444
32	To drainage basin numberD. B. No	•••						970	3/6	659
33 34	Delivered for use in the basinorganizations acre-feet	113 835,322	446 927,491	71,922	645 2,948,827	99,798	2,201,607	3,168,013	3,764,241	3,305,255
35 36	To farm irrigation water usersorganizations acre-feet	824,592	900,617	71 , 922	2,885,053	99,088	102 1,933,755	965 2,956,192	3,697,304	3,278,182
37 38	To residential water usersorganizations acre-feet	1,899	76 15,845	***	31,413	710	16 42,268	132,501	45 37,836	17,530
39 40	For other useorganizations	8,831	13 11,029		32,361		24 225,584	30 79,320	29,101	9,543
41	Delivered to other irrigation organizations delivering organizations ore-feet	3 189,781	12 39,971		278,847		9 100,899	52 557,722	10 62,388	25 515,707
43	Average delivery of irrigation water per acre irrigated as reported by organizationsacre-feet	3.1	2.5	1.8	3.4	1.2	2.0	2.7	4.4	3.1
44	NEW CAPITAL INVESTMENT, 1950-1959 Exponditures for additional new works and equipment for irrigation and drainage, Jan. 1, 1950-Dec. 31, 1959organizations dollars	51 1,059,001	212 13,666,262	5 613,767	277 9,588,868	16 3,934,876	50 16,733,025	564 38,346,259	117 200,768,354	379 29,176,133
40	dollars	1,009,001	13,606,262	613,767	9,388,868	2,934,876	10,733,025	259,346,259	200,768,354	29,176,13

Summary Table 12.-LAND IRRIGATED BY SOURCE OF WATER, BY STATES: CENSUS OF 1959

	Item (For definitions and explanations, see text)	18 States, total	Arizona	California	Colorado	Idaho	Kansas and Oklahoma	Louisiana	Montana	Nebraska
1	Total acres irrigatedfarms reporting	267,431	5,391	74,138	20,312	25,383	7,073	4,817	11,935	18,936
2	acres	31,222,967	1,152,450	7,395,570	2,684,757	2,576,580	959,733	484,850	1,874,520	2,077,926
3	Acres irrigated by sprinklersfarms reporting	54,957	113	18,378	1,088	2,180	2,611	166	1,376	3,755
4	acres	2,817,283	4,635	838,547	52,808	215,595	142,558	4,419	67,745	226,468
5	Sprinklers onlyfarms reporting	41,103	73	14,160	432	1,085	2,172	150	741	2,005
6	scres	1,959,259	3,157	478,278	24,668	119,943	120,214	4,052	35,916	157,329
İ	LAND IRRIGATED, BY SOURCE OF WATER TO INDIVIDUAL FARMS, 1959									
7	Ground water sources on farmfarms reporting	107,021	2,159	40,393	4,884	2,557	5,426	3,047	537	14,093
8	acres	13,243,912	581,238	3,644,279	495,814	386,945	823,171	245,662	30,791	1,445,029
9	Ground water sources on farm only.farms reporting	79,869	1,499	26,023	1,632	1,266	5,087	2,672	300	12,461
10	scres	10,549,815	408,794	2,248,970	193,403	241,673	783,326	209,972	14,148	1,304,336
11	Surface sources on farmfarms reporting	38,797	300	5,552	3,533	2,749	1,213	1,058	4,771	1,703
12	acres	5,081,250	94,845	836,452	617,711	327,281	56,331	130,478	909,901	99,136
13	Surface sources on farm onlyfarms reporting	29,356	210	3,541	2,457	1,882	1,022	792	4,055	1,089
14	acres	4,050,182	85,836	574,507	508,669	245,191	47,631	105,718	795,571	69,774
15	Irrigation organization sourcesfarms reporting	153,704	3,608	43,295	15,971	22,051	803	1,198	7,452	4,841
16	ccres	12,897,805	476,367	2,914,839	1,571,232	1,862,354	80,231	108,710	933,828	533,761
17	Irrigation organization sources									
-	onlyfarms reporting	126,650	3,007	29,634	12,280	20,306	596	888	6,753	3,702
18	acres	10,285,737	332,151	1,865,635	1,182,723	1,662,383	52,798	81,305	836,876	416,847
19	Both farm ground water sources and surface sourcesfarms reporting	4,454	73	1,265	252	178	161	156	126	544
20	acres	999,317	28,499	308,394	61,553	40,483	18,564	33,597	38,567	72,256
21	Both irrigation organization and farm ground water or farm surface sourcesfarms reporting	27,102	602	13,675	3,691	1,751	207	309	701	1,140
22	scres	5,337,916	297,170	2,398,064	738,409	386,850	57,414	54,258	189,358	214,713

	Item (For definitions and explanations, see text)	Nevada	New Mexico	North Dakota	Oregon	Scuth Dakota	Texas	Utah	Washington	Wyoming
1	Total acres irrigatedfarms reporting	2,110	8,850	471	17,724	1,002	27,884	15,701	19,292	6,412
2	acres	542,976	731,835	47,656	1,384,284	115,629	5,655,638	1,061,683	1,006,969	1,469,911
3	Acres irrigated by sprinklersferms reporting	91	158	101	8,954	239	4,564	409	10,481	293
4	scres	4,473	18,988	3,880	283,506	20,906	554,641	18,421	342,665	17,028
5	Sprinklers onlyfarms reporting	37	85	83	7,747	194	3,919	118	7,991	111
6	acres	2,015	12,754	3,263	234,031	18,032	479,965	6,438	251,603	7,601
	LAND IRRIGATED, BY SOURCE OF WATER TO INDIVIDUAL FARMS, 1959									
7	Ground water sources on farmfarms reporting	492	3,357	25	4,097	191	19,847	1,667	3,911	338
8	acres	100,609	439,163	973	151,486	18,959	4,614,720	113,417	118,157	33,499
9	Ground water sources on farm only farms reporting	31.2	2,507	24	3,208	168	18,843	689	3,020	158
10	acres	64,995	392,498	943	99,340	17,056	4,407,221	61,165	83,158	18,817
11	Surface sources on farmfarms reporting	480	1,282	156	6,551	300	2,031	1,145	3,760	2,213
12	acres	199,313	56,635	9,799	561,303	24,424	202,335	88,502	143,671	723,133
13	Surface sources on farm onlyfarms reporting	362	1,136	151	5,596	252	1,366	519	3,039	1,887
14	acres	143,761	40,627	9,145	465,244	21,947	140,545	50,387	106,756	638,873
15	Irrigation organization sourcesfarms reporting	1,350	5,100	295	8,445	571	7,117	14,428	12,900	4,279
16	ccres	243,054	236,037	36,884	671,495	72,246	838,583	859,764	745,141	713,279
17	Irrigation organization sources			,						Ť
	onlyfarms reporting	1,223	4,321	290	7,591	523	6,568	13,038	12,004	3,926
18	acres	214,235	165,639	36,017	565,506	65,823	734,777	760,042	683,565	629,415
19	Soth farm ground water sources and surface sourcesfarms reporting	84	104	1	472	11	554	64	332	77
20	scres	58,014	23,084	45	64,334	1,582	190,977	8,519	27,551	23,298
21	Soth irrigation organization and farm ground water or farm surface sourcesfarms reporting	129	782	5	050		553	3 202	897	364
22	water or tarm surface sources sarms reporting	61,971	109.987	1,506	857 189,860	48 9,221		1,391 181,570	105,939	159,508
	BCFCS	61,971	109,987	1,506	169,860	9,221	182,118	181,570	105,939	239,508

IRRIGATION OF AGRICULTURAL LANDS

Summary Table 13.-ORGANIZATIONS REPORTING, QUANTITIES OF IRRIGATION WATER OBTAINED FROM SPECIFIED SOURCES, AND WATER LOST IN CONVEYANCE: 1959 AND 1949

For 1949 the amounts of water are for the entire organization, and for 1959 the amounts are for the part within the State only. See text

	Water obtained from-											
		All so	ources			Surfac	e sources			Ground	sources	
State	Organiza repor		Acre-	feet	Organia repor		Acre-	feet	Organiz repor		Acre	-feet
	1959	1949	1959	1949	1959	1949	1959	1949	1959	1949	1959	1949
18 States, total	8,668	9,566	91,641,708	96,013,034	6,984	7,214	68,685,789	72,664,954	1,266	1,393	4,311,470	2,618,028
Arizone	155	150	4,562,142	3,754,337	117	109	1,991,449	1,777,046	63	57	1,267,338	1,104,882
California	1,066	1,301	28,868,651	24,361,853	364	308	15,276,039	18,528,632	688	974	1,658,783	1,168,621
Colorado	1,906	2,201	9,138,078	10,795,335	1,692	1,792	7,670,472	9,074,298	24	7	31,174	7,761
Idaho	920	957	16,726,476	22,226,161	734	709	13,527,060	14,411,794	69	38	547,261	126,704
Kansas and Oklahoma	14	12	293,289	126,183	14	11	206,948	125,273		1		810
Louisiana	203	312	617,850	571,543	68	101	516,572	438,813	148	234	101,278	132,230
Montana	1,044	998	6,234,890	5,650,173	1,005	938	5,922,639	5,184,577	19	2	47,652	1,575
Nebraska	68	65	2,093,846	3,879,942	62	61	1,452,443	2,872,477	1	1	3,777	500
Nevada	115	157	1,258,035	1,578,171	81	105	1,026,055	1,190,540	7	1	30,959	26
New Mexico	446	599	1,459,604	2,177,754	428	573	1,372,752	2,032,115	26	6	44,978	21,072
North Dakota	9	5	108,724	288,727	9	5	8,724	288,727			,,,,	
Oregon	646	616	4,461,553	5,227,894	631	590	3,891,300	3,768,532	18	9	262,759	2,858
South Dakota	24	20	169,283	183,231	23	20	166,083	182,611			202,155	2,000
Texas	103	112	2,772,645	4,522,891	80	75	2,638,564	4,249,663	19	23	33,182	30,053
Utah	978	1,034	4,205,811	5,408,782	754	892	3,401,225	4,326,325	152	26	155,470	12,396
Washington	347	398	4,984,480	5,277,580	303	333	4,733,940	3,314,919	27	17	120,449	
Wyoming	675	683	5,415,961	8,478,688	632	640	4,883,524	7,288,296	7	2	6,410	24,864
n) datatif	0/2	005	2,412,561	0,470,000	6,52	940	4,003,324	7,200,296	, , , , , , , , , , , , , , , , , , ,	2	6,410	1,834
-		Water obtains	ed from-Cont	Inued					Water lost i	n convermen		'
		Other or	ganizations			obtained			water lost 1	n conveyance		
State	Organi	zations	1			m other es, 1959	Organi	zations report	ing		Acre-feet	
	repo	orting	A	ere-feet	(acr	e-feet)						
_	1959	1949	1959	1949			1959		1949	1959		1949
18 States, total	1,123	1,93	18,644,	20,730,0	152	XXX		7,238	8,025	15,8	47,148	18,398,178
Arizons	14	1	1,003,	376 872,4	09	299,479		148	144	9	25,506	1,051,214
California	219	17	72 11,546,	796 4,664,6	500	387,033		436	431	3,4	12,068	4,889,211
Colorado	295	63	1,432,	394 1,713,2	276	4,038		1,767	2,060	1,4	33,931	1,906,935
Idaho	193	1 34	2,511,	350 7,687,6	63	140,305		841	893	2,9	48,184	3,687,358
Kansas and Oklahoma	1	l l	1 55,2	294	.00	31,047		12	11		71,773	22,769
Louisiana			1	:	500			170	309		50,046	48,273
Montana	41	12	261,8	313 464,0	21	2,786		979	954	1,4	84,101	1,365,610
Nebraska	4	1	.9 87,1	1,006,9	165	550,515		67	65	8	79,994	1,125,438
Nevada	2"	7 7	79 189,	781 387,6	05	11,240		107	136	2	06,933	261,314
New Mexico	18	3 2	26 39,9	971 124,5	67	1,903		423	596	4	92,142	612,425
North Dakota						100,000		5	4		36,802	120,975
Oregon	19	4	6 278,8	347 1,456,5	i04	28,647		499	413	7	30,281	1,243,956
South Dakota		. [1 .		20	3,200		20	13		69,485	75,559
Texas	19	2	23 100,8	399 243,1	.75			80	106	4	70,139	846,298
Utah	179	28	557,	722 1,070,0	61	91,394		808	933	4	66,721	890,687
Washington	34	6	4 62,	388 1,937,	97	67,703		261	354	1,1	53,487	656,828
Wyoming	62	2 11	.8 515,	707 1,188,5	58	10,320		653	656	1,0	15,555	1,654,100

12,692,686

116,516,496

16,003,368

509

200

344

38,346,259

29,176,133

200,768,354

564

117

379

Summary Table 14.-CAPITAL INVESTMENT IN IRRIGATION ORGANIZATIONS, 1959, 1950, AND 1940; AND NEW CAPITAL INVESTMENT, 1940 TO 1959

[Interstate organizations are counted once in each State; but only once in 18 States total. See text]

							Total capit	al invest	ment						
State			1000		1940		Perce	nt incres	se			Pe	rcent d	istribution	
	1959 (doller		1950 (dollars)		(dollars)	19	950 to 1959	19	40 to 1950		1959		1	950	1940
18 States, total	2,424,	153,295	1,384,564,	420	864,611,	471	7	5.0	60	0.1		100.0		100.0	100.0
Arizona	167,6	549,244	104,724,	b31	77,859,	230	6	0.0	34	.5		6.9		7.6	9.0
California	898,	382,434	402,411,	512	209,207,	034	12	3.2	92	2.3		37.1		29.1	24.2
Colorado	204,	536,933	144,704,	328	95,501,	039	4	1.3	51	5		8.4		10.4	11.0
Idaho	147,8	342,532	123,314,	673	99,663,	601	1	9.8		3.7		6.1		8.9	11.5
Kansas and Oklahoma	55,	165,573	12,854,	179	750,	784	32	9.1	1,612	2.1		2.3		1.0	0.1
Louisiana	10,8	320,903	8,766,	217	5,766,	385	2	3.4	52	2.0		0.5		0.6	0.7
Montana	96,	265,070	72,024,	369	61,113,	972	3	3.6	17	.8		4.0		5.2	7.1
Nebraska	55,8	813,886	41,974,	336	36,088,	721	3	2.9	16	5.3		2.3		3.0	4.2
Nevada	17,	151,395	16,092,	394	14,555,	895		5.5	10	0.5		0.7		1.2	1.7
New Mexico	59,	112,930	45,446,	668	28,204,	839	3	0.0	61	.1		2.4		3.3	3.3
North Dakota	3,4	466,553	2,852,	786	1,700,	757	2	1.5	67	7.7		0.1		0.2	0.2
Oregon	70,	576,455	60,987,	587	45,368,	352	1	5.7	34	4		2.9		4.4	5.2
South Dakota	9,8	896,475	5,961,	599	5,154,	671	6	6.0	15	5.6		0.4		0.4	0.6
Texas	87,	629,785	70,896,	760	57,336,	360	2	3.6	23	3.6		3.6		5.1	6.6
Utah	91,	506,998	53,160,	739	40,468,	053	7	2.1	31	1.3		3.8		3.8	4.7
Washington	369,	453,349	168,684,	995	52,168,	499	11	9.0	223	3.3		15.2		12.2	6.0
Wyoming	78,8	882,780	49,706,	647	33,703,	279	5	3.6	47	7.4		3.3		3.6	3.9
										T					
				-	investment		1							l investment	
State	Pe	r organizat	ion	Per	irrigated	farm	Per scre	of irriga	ated land	-	1, 1950	to Dec.	31, 1959	Jan. 1, 1940 1	io Dec. 31, 1949
	1959	1950	1940	1959	1950	1940	1959	1950	1940		nizations porting		unt lars)	Organizations reporting	Amount (dollars)
18 States, total	277,077	131,976	154,865	6,319	5,537	2,543	137	92	53		4,177	1,039,	593,875	5,155	519,952,949
Arizona	1,081,608	642,482	755,914	13,353	12,089	9,126	260	188	134		76	62.	924,613	111	26,865,401
Celifornia	835,704	267,205	322,962	7,742	6,332	4,590	1	128	66		487		970,922	711	193,204,478
Colorado	105,813	62,860	112,619	5,835	4,860	4,361		60	34		903		837,605	990	49,203,289
Idaho	159,592	115,897	206,770	3,396	4,087	3,725		65	35		382		527,859	441	23,651,072
Kansas and Oklahoma	3,447,848	988,788	183,118	49,969	22,751	1,060	1	464	17		11		311,394	4	
Louisiana	53,304	27,309	178,902	3,673	2,754	1,408	58	34	32		109		054,686	266	2,999,832
Montans	91,681	58,366	141,467	6,516	5,735	5,897	71	63	58		514		240,701	561	10,910,397
Nebraska	820,792	617,269	372,048	6,050	7,428	8,406	1	83	56		43		839,550	24	5,885,615
Nevada	147,856	102,499	142,704	6,482	7,450	7,653		57	38		51		059,001	87	1,536,499
New Mexico	132,243	73,301	57,796	2,838	2,843	2,044		121	70		212		666,262	324	17,241,829
North Dakota	288,879	475,464	103,827	14,814	10,225	4,128	1	104	88		5		613,767	4	
Oregon	108,579	80,778	169,284	3,984	4,653	4,303	83	83	76		277	1	588,868	305	15,619,235
South Dakots	395,859	248,399	125,723	13,841	9,243	7,023	1	88	104		16	1 -	934,876	9	806,928
Texas	850,774	581,120	494,278	3,563	6,099	3,665	1	68	81		50		733,025	81	13,560,400
	050, 174	,,	1,	2,505	1 -,	1 ,,,,,,,,	76	. ~	1 01	1		,	,	1	

Washington....

Wyoming.....

92,994

114,989

1,055,580

50,340

382,505

71,726

49,231

212,067

138,696

2,128

12,417

8,801

1,945

9,760

6,608

1,924

3,850

6,133

82

435

74

51

328

60

29

76

45

Summary Table 15.-ORGANIZATIONS REPORTING BY TYPE OF SERVICE TO WATER USERS AND ACRE-FEET DELIVERED: 1959

[Interstate organizations are counted once in each State, but only once in 18 States total. See text]

State	Water delivered t residential		Water delivered residential us organiz	ers, and other	Water delive organizat	red to other
	Organizations reporting	Acre-feet of water	Organizations reporting	Acre-feet of water	Organizations reporting	Acre-feet of water
18 States, total	8,216	40,587,141	379	24,239,440	67	9,896,986
Arizona	149	1,532,770	4	1,155,194	2	872,627
California	964	8,338,192	77	8,384,379	23	8,002,713
Colorado	1,788	4,404,077	103	2,679,530	15	459,360
Idaho	843	6,851,429	69	6,590,821	9	174,574
Kansas and Oklahoma	13	162,301			1	55,294
Louisiana	203	567,804				
Montana	1,018	3,923,717	26	713,958		
Nebraska	62	783,306	5	389,121	1	10,378
Nevada	112	794,107	2	204,561	1	17,604
New Mexico	433	730,403	13	226,030		
North Dakota	9	71,922				
Oregon	633	2,110,846	12	1,067,142	1	17,325
South Dakota	24	99,798				
Texas	94	1,589,954	8	451,141	1	35,827
Utah	925	2,359,099	44	1,114,898	8	172,418
Washington	337	3,464,740	8	308,181	2	24,607
Wyoming	647	2,802,676	19	954,484	6	54,259

Summary Table 16.-NUMBER OF ORGANIZATIONS CLASSIFIED BY NUMBER OF FARMS PROVIDED WITH WATER:

1959 AND 1949
[Interstate organizations are counted once in each State, only once in the 18 States total. Interstate organizations are counted in groups provided with irrigation water for the entire organization. See text.]

-	D-4-3	number					Orge	mization	ns provid	ling irri	lgation w	ater dir	ectly to	1_				
State		aniza-	No f	erms	1-3 f	arms	4-9 f	arms	10-29	farms	30-99	farms	100- fer		300- far		1,000 c	
	1959	1949	1959	1949	1959	1949	1959	1949	1959	1949	1959	1949	1959	1949	1959	1949	1959	1949
18 States, total	8,749	10,491	164	342	2,811	3,780	2,459	2,954	1,754	2,075	972	941	369	267	168	102	52	30
Arizona	155	163	2	4	25	38	32	23	34	41	39	44	16	9	5	3	2	1
California	1,075	1,506	35	45	227	394	277	441	245	351	147	169	80	61	49	32	15	13
Colorado	1,933	2,302	45	133	810	934	540	663	348	385	151	150	51	28	16	8	2	1
Idaho	927	1,064	15	27	249	365	268	287	227	236	106	102	38	31	15	10	9	6
Kansas and Oklahoma	16	13	3			1	1	4	5	3	4	4	2	1	1			
Louisiana	203	321		1	99	156	78	109	1.3	37	9	16	1	1	3	1		
Montana	1,050	1,234	9	46	519	695	303	312	1.32	114	62	50	19	9	5	7	1	1
Nebraska	68	68	1	2	6	7	6	8	16	17	18	18	13	10	6	5	2	1
Nevada	116	157	2	5	31	64	42	42	25	31	12	12	3	2	1	1		
New Mexico	447	620	2	6	61	97	88	175	162	237	107	89	21	11	3	3	3	2
North Dakota	12	6	2		1		2	2	4	1	1	2			1	1		
Oregon	650	755	5	14	220	324	250	261	104	99	44	29	11	18	13	8	3	2
South Dakota	25	24	1	1	5	5	9	10	6	6	2	1	1		1	1		
Texas	103	122	1	5	15	23	21	31	23	21	17	21	13	10	4	8	9	3
Utah	984	1,058	17	28	134	179	264	280	286	341	178	169	74	53	31	8		
Washington	350	441	5	6	105	137	84	144	70	79	47	47	18	17	13	8	8	3
Wyoming	686	693	20	19	307	362	202	174	104	94	34	29	13	11	5	3	1	1

¹For 1959, the data are for the number of farm water users. See text.

Summary Table 17 (Part 1 of 3).-NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION, BY STATES: CENSUSES OF 1959 AND 1950

	Item (For definitions and explanations, see text)	18 States, total	Arizona	California	Colorado	Idaho	Kansas and Oklahoma	Louisiene	Montana	Nebraska
1 2	irrigation organizations, total number	8,749 10,491	155 163	1,075 1,506	1,933 2,302	927 1,064	16 13	203 321	1,050 1,234	68 68
3 4	irea irrigated as reported by organizationsacres 1959	17,700,841 14,974,785	643,846 555,958	4,184,482 3,135,281	2,669,677 2,399,618	2,299,457 1,896,032	106,468 78,189	185,539 260,897	1,347,197 1,149,358	706,339 508,161
5 1	Farm water users served directlywater users 1959	383,654	12,555	116,037	35,051	43,525	1,104	2,946	14,773	9,225
6	Total water conveyedacre-feet 1959	91,641,708	4,562,142	28,868,651	9,138,078	16,726,476	293,289	617,850	6,234,890	2,093,846
	TYPE OF ORGANIZATION									
7 8 9	Autusl: Unincorporatedorganizations 1959 1949 Farm area irrigated directlyacres 1959	4,989 6,464 2,067,317	42 61 17,583	384 709 75,038	1,261 1,579 543,826	497 648 211,622	2 4 (D)	37 47 (D)	787 994 362,973	9 11 (D)
1	Farm water users served directlywater users 1959 Total water conveyedacre-feet 1959	32,360 8,395,862	587 80,205	2,074 359,229	6,071 2, 13 9,798	2,589 1,035,785	(D) (D)	(D) (D)	3,227 1,778,459	(D)
2 3	Incorporatedorganizations 1959 1949 Farm area irrigated directlyacres 1959	2,737 2,884 6,732,753	34 37 308,784	432 561 1,035,041	642 686 1,938,870	367 348 1,295,602	8 8 45,774	1 4 (D)	203 158 491,189	17 15 64,742
5	Farm water users served directlywater users 1959 Total water conveyedacre-feet 1959	129,375 29,975,566	5,802 1,835,551	22,005 3,129,996	25,943 6,234,031	20,979 10,150,336	307 117,634	(D) (D)	5,126 2,692,345	791 166,546
7 1	Districtorganizations 1959 1949 Farm area irrigated directlyacres 1959	558 483 6,920,527	15 12 187,068	173 114 2,836,277	14 20 161,657	53 54 676,471	2 (D)	:::	35 39 309,869	40 39 600,265
0	Farm water users served directly	178,619 32,949,641	1,636 1,033,978	82,983 15,108,773	2,404 345,653	18,136 5,021,558	(D) (D)	:::	3,662 1,085,931	7,861 1,844,094
3	U.S. Bureau of Reclamation; projects and atorage systems operated by bureauorganizations 1959	54 37	2 2	13 6	6 4	4	4		3	
14	Farm area irrigated directlyacres 1959 Farm water users served directlywater users 1959 Total water conveyedacre-fact 1959	710,904 14,748 13,144,829	3,082 92 699,904	26,255 473 8,522,360	268,580	76,767 714 253,019	6,470 120 75,140		6,887 68 72,302	
7	U. S. Bureau of Reclamation; operated by water users	147	5	29	6	12	2	:::	15 16	9
89	1949 Farm area irrigated directlyacres 1959 Farm water users served	3,301,541	312,389	845,029	109,440	350,674	(D)		238,790	240,028
31	directlywater users 1959 Total water conveyedacre-feet 1959	62,998 19,335,011	4,507 2,084,486	12,466 6,639,274	2,707 871,054	8,836 2,758,367	(D) (D)	:::	2,034 847,937	3,324 822,089
32 33 34	U. S. Bureau of Indian Affairsorganizations 1959 1949 Farm area irrigated directlyacres 1959 Farm water users served	123 141 578,635	59 48 125,574	7 14 3,354	9,672	3 6 (D)		:::	17 7 157,791	•••
36	directlywater users 1959 Total water conveyedacre-feet 1959	12,988 3,279,132	4,427 897,605	443 12,741	103 22,957	(D)	:::	:::	2,317 524,523	
37 38 39	Commercialorganizations 1959 1949 Farm area irrigated directlyacrea 1959	246 401 572,912	1	51 80 158,517	4 6 2,740	1 3 (D)		165 270 175,837	 3	(D
10	Farm water users served directly	11,270 2,743,325		5,919 952,298	17 98,038	(D)	:::	2,806 593,582	:::	(D)
42	Stateorganizations 1959 1949 Farm area irrigated directlyacree 1959	7 31 44,408	1 (D)		 1			:::	4 29 18,488	(D
45	Farm water users served directly	853 170,944	(D) (D)					:::	373 81,330	(D)
47	Cityorganizations 1959	35 50	2 2	15 22	4 5	2 1 (D)	1	:::	1	
49 50	Farm area irrigated directlyacres 1959 Farm water users served directlywater users 1959 Total water conveyedacre-feet 1959	73,385 3,441 982,409	(D) (D) (D)	50,000 2,140 783,254	12,912 513 29,021	(D) (D)			•••	

 $^{{\}tt D}$ Data not shown to avoid disclosure of information for individual organizations. NA Not available.

Summary Table 17 (Part 1 of 3).—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION, BY STATES: CENSUSES OF 1959 AND 1950—Continued

Trigition organizations, total 150
maker
organizations
Farm water users served directly water users 1999. 2,666 20,828 234 17,712 715 24,988 43,000 29,752 1.288,005 1,288,005 1,429,604 108,724 4,461,593 169,283 2,772,643 4,205,811 4,984,480 5,41
Matual: Unincorporated
Matual:
directly water users 1999 309 8,147 (D) 683,382 3,685 92,935 224,42 1,523 1,165
Improprieted Impr
Farm area irrigated directly
Total water conveyed.
18
directly
22 U.S. Bureau of Reclamation; projects and storage systems operated by bureauorganisations 1959. 23 Farm ster users served directly
24 Farm area irrigated directly acres 1999 132,325 1,319 12,645 11,382 59,023 1,030 333,179 4 25 Farm area served directly water users 1999 7,550 20 30 106 1,788 47 3,356 21 27 U.S. Bureau of Reclamation; operated by vater users
Total water conveyed
by valer wares
Farm water users served Se
11 Total water conveyed
33 1949 14 42 3 1 3 2 3 3 4 Farm area irrigated directlyacres 1959 (D) 6,712 1,790 (D) 62,528 (D) 2:
35 Farm water users served
directly
37 Commercial
38 1949 2 1 27 2 3 39 Farm area irrigated directly
directly water users 1959 (D) (D) 892 (D) (D) (D) 41 Total water conveyed acre-feet 1959 (D) (D) 801,987 (D) (D)
42 State
44 Farm area irrigated directlyacres 1959
46 Total water conveyed
47 City
50 Farm water users served directly
51 Total water conveyed

 ${\tt D}$ Data not shown to avoid disclosure of information for individual organizations. NA Not available.

SUMMARY

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Summary Table 17 (Part 2 of 3).—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION, BY STATES: CENSUSES OF 1959 AND 1950

=										
	Item (For definitions and explanations, see text)	18 States, total	Arizona	California	Colorado	Idaho	Kensas and Oklahoma	Louisiana	Montena	Nebraska
	TYPE OF SERVICE, 1959									
1	All water directly from surface and									
2 3 4	ground water sourcesorganizations Total water conveyedacre-feet Water deliveredacre-feet To farm and residential	7,543 70,168,762 56,765,261	3,100,324 2,378,826	846 16,817,062 15,002,875	1,612 7,289,598 5,952,055	726 13,281,058 10,593,765	12 193,854 156,377	203 617,850 567,804	1,002 5,818,054 4,321,516	62 1,858,915 1,062,435
5	users onlyorganizations acre-feet	7,228	136	793	1,532	673	11	203	979	57
6	To farm and residential users and other	30,939,577	768,299	4,395,091	3,555,344	4,640,741	101,083	567,804	3,640,880	665,788
7	irrigation organizationsorganizations Water to farm and residential	259	2	37	67	47	•••		23	4
8	usersacre-feet Water to other irrigation	10,388,158	649,600	1,300,836	1,347,291	3,811,043			427,198	309,536
9	organizationsacre-feet To other irrigation organizations onlyorganizations	5,779,328	88,300	1,472,554	618,736	1,968,856			253,438	76,733
10	acre feet	9,658,198	872,627	7,834,394	430,684	173,125	55,294			10,378
11	Part of water from other organizationsorganizations	/50	_							
12 13	Total water conveyedacre-feet From surface and ground water	452 15,896,595	630,007	10,545,371	1,032,046	2,296,945	99,435	:::	19 182,575	35 ,91 9
14	sourcesacre-feet From other irrigation	2,828,497	161,463	504,793	416,086	871,115	13,094		154,807	2,577
15 16	organizationsacre-feet Water deliveredacre-feet To farm and residential	13,068,098 13,148,549	468, 544 489, 253	10,040,578 8,368,444	615,960 874,508	1,425,830 2,006,786	86,341 61,2 1 8	:::	27,768 142,374	33,342 3,956
17	users onlyorganizations acre-feet	371 5,856,526	6 272,272	91 2,779,735	289,233	57 1,635,569	61,218		16	2
18	To farm and residential users and other irrigation organizationsorganizations Water to farm and residential	76	1	31	19	1,635,569	01,218		109,052	1,104
20	usersacre-feet Water to other irrigation	4,670,895	215,191	3,519,369	268,086	283,653			24,947	2,852
21	organizationsacre-feet To other irrigation organizations	2,565,560	1,790	2,059,636	288,513	87,564			8,375	
22	onlyorganizations acre-feet	55,568		9,704	28,676			:::		
23	All of water from other			.,	,					
24 25 26	organizationsorganizations Total water conveyedacre-feet. Water deliveredacre-feet. To farm and residential	5,576,351 4,809,757	831,811 692,512	97 1,506,218 1,353,965	816,434 716,404	129 1,148,473 1,016,273	:::		23 234,261 173,785	3 199,012 116,414
27	nsers onlyorganizations	617 3,791,038	7 492,199	80 1,163,366	188 559,500	113 575,119			23	3
28	To farm and residential users and other irrigation organizationsorganizations	44	1	9	17	373,119			173, 785	116,414
29	Water to farm residential usersacre-feet	432,924	159,154	20,091	91,119	158,849			***	
30	Water to other irrigation organizationsacre-feet	402,575	41,159	11,893	65,785					
31	To other irrigation organizations onlyorganizations	13	41,157	11,093		280,856				• • •
32	acre-feet	183,220	:::	158,615	***	1,449	:::	:::	:::	
33	No water conveyedorganizations	80	• • • •	9	26	7	2		6	
34	WATER FROM OTHER SOURCES			ļ						
.34	Organizations reporting NO water from other sources used on land served			ĺ	İ			i		
35	by the organizationorganizations acrea aerved	7,301 16,487,956	124 398,253	833 3,693,391	1,470 1,987,469	793	10 133,631	203	808	62 848,109
36 37	acres irrigated Water delivered to farmsacre-feet	13,903,569 44,600,549	308,298 1,436,080	3,064,803 10,046,439	1,782,783 4,493,362	1,938,766 9,295,415	90,578 122,981	185,539 567,804	1,159,439 3,537,172	687,083 1,059,054
38 39	acre-feet per acre Organizations reporting water from other	3.2	4.7	3.3	2.5	4.8	1.4	3.1	3.1	1.5
	aources used on land served by the	,								
40 41	organizationorganizations acres served	1,284 4,677,298	29 369,969	208 1,714,108	420 1,059,677	119 423,745	21,416		265,041	44,769
41 42 43	acres irrigated Water delivered to farmsacre-feet acre-feet per acre	3,797,272 9,870,930 2.6	337,322 1,056,145 3.1	1,225,914 2,733,437 2.2	893,987 1,466,136 1.6	403,650 1,710,738 4.2	15,890 39,320 2.5		215,633 867,527 4.0	37,839 70,393 1.9
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Summary Table 17 (Part 2 of 3).—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION, BY STATES: CENSUSES OF 1959 AND 1950—Continued

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	Item (For definitions and explanations, see text)	Nevada	New Mexico	North Dakota	Oregon	South Dakota	Texas	Utah	Washington	Wyoming
Ì	TYPE OF SERVICE, 1959	-								
1	All water directly from surface and									
2 3 4	ground water sources	88 1,064,385 834,106	428 1,419,407 932,369	9 108,724 71,922	627 4,139 701 2,999,487	24 169,283 99,798	84 2,616,143 1,954,653	796 3,073,998 2,640,664	312 4,897,865 3,721,298	613 4,836,975 3,475,311
5	users onlyorganizations	86	416	9	614	24	77	757	304	587
6	acre-feet To farm and residential users and other	629,545	708,823	71,922	1,915,020	99,798	1,506,914	1,790,347	3,405,213	2,476,965
7	irrigation organizationsorganizations Water to farm and residential	2	12		12		6	33	6	17
В	usersacre-feet Water to other irrigation	32,384	184,379		805,620		347,176	424,341	259,995	488,759
9	organizationsacre-feet To other irrigation organizations	172,177	39,167		261,522		64,736	276,298	31,483	455,328
-	onlyorganizations				1		1	5	2	6
10	acre feet		•••		17,325		35,827	149 678	24,607	54,259
11 12 13	Part of water from other organizations Total water conveyedacre-feet From surface and ground water	1 5,579	33,004		15 286,864	:::	65,367	75 768,366	12 40,680	27 309,907
	sourcesacre-feet	3,869	226		43,005		55,603	573,031	8,729	63,279
14	From other irrigation organizationsacre-feet Water deliveredacre-feet	1,710 4,800	32,778 19,064	:::	243,859 162,792		9,764 52,476	195,335 694,328	31,951 38,215	246,628 230,335
16	To farm and residential users onlyorganizations	1	10		15		6	65	11	25
17 18	acre-feet To farm and residential users and other irrigation organizationsorganizations	4,800	16,580		162,792		13,247	268,719	22,267	219,938
19	Water to farm and residential usersacre-feet		1,680				38,893	302,047	9,900	4,277
20	Water to other irrigation organizationsacre-feet		804				336	106,374	6,048	6,120
21	To other irrigation organizations onlyorganizations		l					,		
22	acre-feet		:::	:::				17,188		
23	All of water from other									
24	organizationsorganizations Total water conveyedacre-feet	26 188,071	7,193		34,988		11 91,135	107 363,447	45,935	269,079
25 26	Water deliveredacre-feet To farm and residential	177,366	5,000	•••	33,034		69, 793	311,423	38,015	105,773
27	users onlyorganizations	25 159,762	5,000		33,034		69,793	103 300,033	22 37,260	35 105,773
28	To farm and residential users and other irrigation organizationsorganizations				,			2	1	
29	Water to farm residential usersacre-fect							3,206		
30	Water to other irrigation							2,632		
31	organizationsacre-feet To other irrigation organizations							1		
32	onlyorganizations	17,604	:::	:::	:::	:::	:::	5,552	:::	:::
33	No water conveyedorganizations	1	1	3	4	1		6	3	n
	WATER FROM OTHER SOURCES						1			
34	Organizations reporting NO water from									
	other sources used on land served by the organizationorganizations	112	440	9	577	24	92	843	301	643
35 36	acres served acres irrigated	323,174 273,889	441,358 350,653	72,012	760,014	89,614 84,144	1,278,873 861,652	1,033,131 883,664	746,002	1,300,767 1,198,763
37 38	Water delivered to farmsacre-feet acre-feet per acre	855,353 3.1	845,675	152,922	2,568,770	99,664	1,777,350	2,425,877	3,291,955	3,450,251
39	Organizations reporting water from other sources used on land served by the									
10	organizationorganizations	2	32.6/3		68		100 880	123	122 507	23
40 41	acres irrigated	439 439	32,543 25,490	:::	331,481 323,564	:::	120,880 82,166	294,360 251,055	105,671	46,896 38,100
42 43	Water delivered to farmsacre-feet acre-feet per acre	1,370 3.1	81,992 3.2		1,252,745	:::	156,405 1.9	555,982 2.2	421,033	96,671 2.5
			IL		1					

Summary Table 17 (Part 3 of 3).—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION, BY STATES: CENSUSES OF 1959 AND 1950

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	Item (For definitions and explanations, acc text)	18 States, total	Arizona	California	Colorado	Idaho	Kansas and Oklahoma	Louisiana	Montana	Nebraska
1 2 3 3 4 5 6 6 7 7 8 8 9 10 11 12 13 14 15 16 17 18 19 20 20	acres irrigated. 3.0 to 3.9 acre-feet per acre organizations acres irrigated. 4.0 to 4.9 acre-feet per acre organizations acres irrigated	1,262,270 1,543 3,179,963 1,681 2,699,262 2,699,27 2,111,608 829 2,040,144 2,040,144 1,444,432 332 2,22 211,791 256 152 266,046 152 266,046 93,024	8 8 3,784 26 14,539 99,918 23 10,874 113 127 100,778 8,270 1 1 60,55 24,720 2 3,222 3,222	319,288 175 485,216 589,225 589,225 560,205 266,544 261,203 269,690 219,990 25,869 71,912	137 351,912 347 539,475 36,023 376,324 3162,064 126,125 63,036 43,361 48,17,001 65,29,520 48,13,441	31 29,161 117 126,289 144 146,782 240,532 240,532 240,532 408,167 77 1216,875 79,827 51 95,036 31 31 43,031	40,954 40,340 1 6,884 	4 1,139 57 27,481 90 74,760 38 23,197 112 50,289 8,713	33 45,349 1388 323,156 11,052 11,052 11,052 11,052 11,052 11,052 11,052 11,052 11,052 11,052 11,052 11,052 11,052 11,052 11,052 11,052 11,052	142,167 24 431,215 22 92,064 8 17,448 4,189
21 22 23 24 25 26 27 28 29 30 31 32 33 34	Size of organization (number of farm irrigation water users served directly); None. Organization Organi	164 2,811 6,672 2,459 14,002 1,754 28,311 28,311 28,311 60,896 60,896 60,896 81,392 5141,388	2 25 58 32 190 34 579 39 2,147 16 2,688 5,158	35 227 536 277 1,589 245 3,924 147 7,624 80 13,414 49 23,750 66,876	45 8100 1,921 540 3,072 348 4,973 151 7,927 51 7,634 1,634 6,917 2,662	15 249 582 268 1,563 3,621 106 5,790 38 6,055 15 8,771 9	3 1 4 5 73 4 247 2 357 1 1 423	99 224 78 404 13 211 9 378 1 345 3 1,597	9; 519 1,216 303 1,664 132 2,065; 62 3,224 19 3,287 5 5 5 5 2,351 1 1,225	1 6 16 6 36 16 283 1 1,129 13 2,052 6 2,943 2 3,027
36 37 38 39 40 41 42 43 44 45 46 47 48 49 50	Size of organization (scre-feet of water delivered directly to farms): None	1,942 279,411 2,330 1,348,478 2,046 3,651,996 1,406 7,577,994 9,065,371 216 11,453,999 21,234,756	2 45 45 5,099 34 19,301 55,314 108,055 11 102,809 466,188 7 1,665,499	35 394 47,941 247 135,136 137,137 249,149 46,53,363 1,372,993 46 2,642,298 24 7,679,396	45 431 60,242 52,0314,300 489 891,871 332 1,761,332 1,61,332 1,83,674 18 956,806 2491,273	15 140 22,611 187 111,155 212 379,667 225 1,254,319 40 1,979,238 1,547,955 40 1,979,238 20 5,711,208	3 1 19 1 800 1,807 3 17,295 111,023 131,357	7,665 9,665 9,5 51,832 34 55,375 16 78,537 4 172,378 1 108,804	139 20,753 282 169,190 317 558,692 204 1,082,748 1,280,732 17 819,805 4 472,779	1 200 3,179 14 22,318 117,387 21 392,297 335,417 260,251
51 52 53 54 55 56 57 58 59 60 61 62 63 64 65	Size of organization (acre-feet of water conveyed): None organizations. 1 to 299 acre-feet organizations. 300 to 999 acre-feet organizations. 1,000 to 2,999 acre-feet organizations. 1,000 to 2,999 acre-feet organizations. acre-feet. 3,000 to 9,999 acre-feet organizations. acre-feet. 30,000 to 29,999 acre-feet organizations. acre-feet. 30,000 to 29,999 acre-feet organizations. acre-feet organizations. acre-feet organizations. 100,000 or more acre-feet organizations. acre-feet organizations.	80 1,707 249,223 2,197 1,259,360 2,059 3,775,692 1,597 8,634,680 681 11,400,356 296 16,001,925 132 50,320,472	 42 5,862 31 19,500 28 54,381 104,194 13 182,051 10 579,627 10 9,576,626	9 359 45,144 230 123,932 139 244,133 148 842,395 31,593,082 2,855,070 45 24,160,998	27 3777 54,184 502 306,540 477 869,688 379 2,038,341 126 2,078,828 1,913,744 8 1,879,907	7 20,231 171 101,339 208 369,929 230 1,265,329 108 1,814,468 58 2,853,797 30 10,353,325	2 1,080 1 1,902 2 9,620 7 171,159 2 109,528 	 43 9,020 98 56,311 35 58,817 16 84,511 6 199,365 4 183,100 1 128,004	6 113 16,901 259 161,877 313 572,302 224 1,231,228 9 1,628,185 31 1,630,955 6 1,025,214	1 298 4 2,991 12 20,737 14 85,029 22 408,984 10 507,006 5 1,134,926

Summary Table 17 (Part 3 of 3).—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION BY STATES: CENSUSES OF 1959 AND 1950—Continued

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	Item (For definitions and explanations, see text)	Nevada	New Mexico	North Dakota	Oregon	South Dakota	Texas	Utah	Weshington	Wyoming
1 2 3 4 5 6 6 7 7 8 9 10 11 12 13 14 15 16 17 18 19 19 19 19 19 19 19 19 19 19 19 19 19	WATER DELIVERED FER ACRE Organizations reporting No water from other nources used on mane land: 0.1 to 0.9 acre-feet per acre organizations acres irrigated 1.0 to 1.9 acre-feet per acre organizations corganizations 2.0 to 2.9 acre-feet per acre organizations acres irrigated 3.0 to 3.9 acre-feet per acre organizations acres irrigated 4.0 to 4.9 acre-feet per acre organizations acres irrigated 5.0 to 5.9 acre-feet per acre organizations corganizations 6.0 to 6.9 acre-feet per acre organizations cres irrigated 7.0 to 7.9 acre-feet per acre organizations acres irrigated 8.0 to 9.9 acre-feet per acre organizations cres irrigated 10.0 or more acre-feet per acre organizations cres irrigated	2,172 19 43,492 3,33 80,069 31 120,564 1,5 7,004 3 1,375 2 5,390 	455 23,989 158 105,215 119 12,612 72 22,802 24 56,189 3 240 3 490 2,530 6,117	7,375 4 15,001 2 48,465 1 1,171	28 20,602 900 80,036 127 221,968 1132 84 167,27 37 63,509 225 166 5,774 228 11,972 100 1,811	58,640 12 10,345 1 800 5 14,359	12, 12, 40, 56, 56, 56, 56, 56, 56, 56, 56, 56, 56	533 68,354 1662 242,583 2199 252,966 1,888 100,228 100,103,395 44 22,837 42 42,565 16 4,495 114,947 5 1,294	1,500 16 12,689 39 19,052 687 71 397,735 11,426 11,740 26 6,874 31 13,999	42,894 479,080 479,080 253,650 105 164,524 68 95,038 25,422 177 34,461 115 15,615 14,817
21 22 23 24 25 26 27 28 29 30 31 32 33 34 35	SIZE OF ORGANIZATION Size of organization (number of farm irrigation water users served directly): None	2 31 1 71 42 244 25 440 12 645 3 3 314 1 1 952	2 61 148 88 504 162 2,607 1007 4,979 21 2,813 3 1,107	3 1 3 2 12 4 71 1 51 	5 2200 541 250 1,386 104 1,741 11 2,232 11 2,232 7,304 3 7,238	1 5 11 9 97 6 106 2 64 1 1 106 103 12 	11 15 36 21 120 23 403 17 1,037 13 2,332 4 3,110 9	17 134 330 264 1,593 286 4,804 178 9,373 74 12,558	5 105 250 24 478 70 1,077 47 2,452 18 3,221 13 6,683 8 15,637	20 307 736 202 1,106 104 1,639 34 1,977 11 1,960 5 2,378 1 1,512
36 37 38 39 40 41 42 43 44 45 46 47 48 50	Size of organization (acre-feet of water delivered directly to farms): organizations. None	2 7 1,032 20 13,805 37 64,923 35 207,807 13 218,642 1 71,200 1	2 222 26,975 137 69,897 54 86,432 21 102,539 6 108,471 3 162,202 2 371,151	3 1 154 2 1,228 4 19,332 1 16,218 1	5 152 22,194 198 120,113 156 292,017 85 424,468 13 671,564 7 1,712,390	1 1,059 6 3,737 6 10,233 3 12,036 2 72,999	1 9 1,406 12 6,806 26 59,876 19 105,767 14 252,979 4 972,879 4 534,042	17 204 29,845 2992 170,933 266 464,367 150 794,121 564,174 11 504,174 2350,595	5 93 14,598 99 52,476 73 132,376 46 258,275 23 337,447 286,472 26,631,344	20 90 15,858 107,625 202 349,147 128 601,913 571,290 26 1,309,022 4 532,067
51 52 53 54 55 56 57 58 59 60 61 62 63 64	Size of organization (acre-feet of water conveyed): None	1 6 972 13 8,105 43 77,388 219,924 15 258,103 1 97,000 2 605,303	1 201 25,807 134 68,620 68,620 68,110,878 27,17,085 9 152,898 4 234,173 785,733	3 11 154 2 1,410 4 21,870 1 1 20,290 1 212,000	4 129 18,619 193 114,946 600 281,400 102 500,118 36 627,723 177 917,736 9 3,067,787	1 5 620 5 5 7 7 11,458 5 20,040 2 138,890 	8 1,248 12 6,836 18 115,072 20 96,221 289,433 289,433 6 1,323,198 6 944,637	6 1,59 24,759 277 165,271 280 503,339 976,565 891,891 1,177,470 2 498,441	3 78 12,197 101 54,798 69 124,221 277,126 31 478,451 10 544,333 544,333 535,536,669	11 68 12,127 168 100,805 200 380,470 796,849 53 882,662 23 1,353,904 8 8 1,894,462

SUMMARY 77

Summary Table 18.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT: CENSUSES OF 1959 AND 1950

				18 States, total			
I tema		Mut	ual		U. S. Buresu o	of Reclamation	
(For definitions and explanations, see text)	All types	Unincorporated	Incorporated	District	Projects and storage systems operated by bureau	Operated by	Commercial, Indian, State, city, and other
Irrigation organizationsorganizations 1959	8,749 10,491	4,989 6,464	2,737 2,884	558 483	54 37	147 NA	411 623
Service area, 1959: Area served, as reported							
by organizationsacres Area irrigated, as reported	21,165,254	2,458,917	7,898,967	8,189,790	831,003	3,620,787	1,786,577
by organizationsacres	17,700,841 1,612,111	2,067,317 46,201	6,732,753 281,899	6,920,5 27 290,8 7 3	710,904	3,301,541 121,604	1,269,340 971,969
Water users served, 1959, total	383,654 1,204,339 24,118	32,360 13,718 123	129,375 148,178 4,346	178,619 111,585 669	14,748 6,334 87	62,998 55,011 3,595	28,552 924,524 18,893
TYPE OF SERVICE, 1959							
All water directly from surface and ground water sources	7,543 70,168,762 56,765,261	4,683 7,847,566 6,612,777	2,089 23,398,479 18,803,039	376 20,578,231 15,649,050	12,959,902 11,553,457	89 11,167,168 8,138,081	371 5,384,584 4,146,938
To farm and residential users onlyorganizations	7,228 30,939,577	4,647 6,428,760	1,882 10,182,820	330 9,000,640	1,910,088	63 3,340,034	358 3,417,269
To farm and residential users and other irrigation organizations	259	26	176	41	6	20	10
Water to farm and residential usersacre-feet Water to other irrigation	10,388,158	49,946	5,390,596	4,162,219	399,768	3,361,354	385,629
organizations	5,779,328	47,930	2,717,386	1,591,190	1,310,169	1,256,023	112,653
onlyorganizationsorganizations	50 9,658,198	86,141	27 512,237	895,001	7,933,432	6 180,670	231,387
Part of water from other organizations organizations. Total water conveyed acre-feet. From surface and ground water	452 15,896,595	107 236,049	236 4,052,879	82 9,945,563	2 131,288	6,536,032	25 1,530,816
sources acre-feet. From other irrigation organizations acre-feet. Water delivered acre-feet.	2,828,497 13,068,098 13,148,549	86,589 149,460 196,884	619,634 3,433,245 3,351,702	1,001,391 8,944,172 8,203,719	1-24,494 155,782 90,620	1-1,127,375 6,939,558 4,956,783	1,145,377 385,439 1,305,624
To farm and residential users onlyorganizations acre-feet	371 5,856,526	105 184,212	182 1,937,208	67 3,498,750	90,620	20 668,700	15 145,736
To farm and residential users and other irrigation organizationsorganizations Water to farm and residential	76	2	50	15		5	9
usersacre-feet Water to other irrigation	4,670,895	11,868	935,377	2,713,206		2,486,381	1,010,444
organizationsacre-feet To other irrigation organizations onlyorganizations	2,565,560	804	450,441	1,982,059		1,801,704	132,256
acre-feet	55,568		28,676	9,704		•••	17,188
All of water from other organizations organizations Total water conveyed acre-feet Water delivered acre-feet To farm and residential users	5,576,351 4,809,757	193 312,247 275,227	3/77 2,524,208 2,239,587	2,407,739 2,072,880	71,747 53,984	23 816,005 1,428,299	260,410 168,079
onlyorganizations To farm and residential users and other	3,791,038	183 255,836	343 1,614,618	79 1,705,503	53 , 984	19 1,216,562	161,097
irrigation organizationsorganizations	44	7	31	5		2	1
Water to farm and residential usersacre-feet Water to other irrigation	432,924	7,743	257,367	166,597		165,258	1,217
organizations	402,575	8,826	341,664	49,787		42,502	2,298
onlyorganizations acre-feet No water conveyedorganizations	13 183,220 80	3 2,822 7	3 25,938 35	5 150,993 9	27	3,979 7	3,467 2
WATER FROM OTHER SOURCES							
Organizations reporting no water from other sources used on the land served by the							
organizationorganizations scres served	7,301 16,487,956 13,903,569	4,339 2,049,449 1,734,282	2,124 5,520,210 4,748,411	441 6,578,244	19 829,973	103 2,695,464	378 1,510,080
acres irrigated water delivered to farms (acre-feet) acre-feet per acre	13,903,569 44,600,549 3.2	1,734,282 5,833,767 3,4	4,748,411 15,400,864 3.2	5,680,618 17,241,698 3.0	709,874 2,439,257 3.4	2,426,581 8,436,282 3.5	1,030,384 3,684,963 3.6
Organizations reporting water from other sources used on land served by the							
organization	1,284 4,677,298 3,797,272 9,862,683	629 409,468 333,035 1,042,482	539 2,378,757 1,984,342 4,427,146	95 1,611,546 1,239,909 3,654,230	1,030 1,030 3,089	24 729,786 696,298 329,365	24 276,497 238,956 735,736
acre-feet per acre	2.6	3.1	2.2	2.9	3.0	0.3	3.1
NEW CAPITAL INVESTMENT, 1950-1959 Expenditures for additional new works and equipment for irrigation and drainage, January 1, 1950-becaber 31, 1959organizations By U. S. B. R	4,177 795,970,391	2,191	1,389 12,994,596	369 223,853,290	38 559,122,505	127 236,847,886	190
By water users organizationsdollars	243,623,484	5,951,420	52,586,056	155,356,345		48,686,427	29,729,663

IRRIGATION OF AGRICULTURAL LANDS

Summary Table 18.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATION, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT: CENSUSES OF 1959 AND 1950–Con.

				18 States, total			
Item		Mut	cual		U. S. Bureau	of Reclamation	
(For definitions and explanations, see text)	All types	Unincorporated	Incorporated	District	Projects and storage systems operated by bureau	Operated by water users	Commercial, Indian, State, city, and other
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959 Total entering conveyance systemsorganizations acre-feet	8,668 72,997,259	4,982 7,934,155	2,701 24,018,113	548 21,597,730	27 12,917,300	140 9,363,103	410 6,529,961
From another drainage basinorganizations acre-feet From drainage basin		:::			:::		
Prom sources within basin. organizations. Surface water organizations cerefeet. Cround water organizations acrefeet. cranizations	7,994 72,997,259 6,984 68,685,789 1,266 4,311,470	4,787 7,934,155 4,311 7,583,049 534 351,106	2,325 24,018,113 1,973 22,305,174 467 1,712,939	460 21,597,730 423 20,194,167 76 1,403,563	25 12,917,300 25 12,607,865 5 309,435	9,363,103 116 8,548,050 12 815,053	397 6,529,961 252 5,995,534 184 534,427
From other organizations in the basin organizations receiving	1,123 18,644,449	299 461,707	613 5,957,453	169 11,351,911	227,529	44 9,971,908	38 645,849
Total leaving conveyance systemsorganizations acre-feet	8,668 72,997,259	4,982 8,249,339	2,701 25,899,224	548 28,260,529	27 3,911,606	138 16,917,042	410 6,676,561
Conveyance loss in basinorganizations	7,238 15,847,148	4,246 1,278,706	2,202 5,305,070	438 6,646,791	20 1,359,041	122 4,518,194	332 1,257,540
Conveyed to another drainage basinorganizations acre-feet To drainage basin numberD. B. No							
Delivered for use in the basinorganizations acre-feet To farm irrigation water usersorganizations acre-feet	8,604 57,150,111 8,585 54,471,479	4,972 6,970,633 4,967 6,876,249	2,670 20,594,154 2,661 19,836,257	536 21,613,738 534 20,895,928	21 2,552,565 20 2,442,346	131 11,501,751 127 11,130,126	405 5,419,021 403 4,420,699
To domestic water usersorganizations	998 1,607,639 296 1,070,993	273 62,116 50 32,268	523 481,729 139 276,168	132 350,987 64 366,823	6 12,114 7 98,105	38 182,170 24 189,455	700,693 36 297,629
Velivered to other irrigation organisations delivering organisations delivering acre-feet	444 18,644,449	45 146,523	289 4,076,342	72 4,689,112	9,233,223	31 3,284,876	26 499,249
SIZE OF ORGANIZATION, 1959	164 2,811 2,459 1,754 972 369 168 52	22 2,532 1,715 571 130 18	76 160 593 1,005 625 213 57 8	23 18 44 105 143 104 88 33	34 2 6 5 1	14 1 3 8 28 40 43	9 102 106 74 67 29 17
Size of organization (acre-feet of water delivered directly to farms): Organizations Organizations Organizations	164 1,982 2,310 2,046 1,406 546 216 79	22 1,542 1,638 1,210 510 63 4	76 323 524 683 707 325 83 16	23 25 32 72 132 130 97 47	34 5 3 6 6	14 3 6 8 21 28 39 28	9 92 116 81 52 25 26
Size of organization (acre-feet of enter conveyed):	80 1,707 2,197 2,059 1,597 681 296	6 1,362 1,599 1,273 641 101 7	35 256 458 662 756 395 142 33	10 13 28 52 133 140 112 70	27 3 4 9 11	7 1 4 9 18 32 33 43	2 76 112 72 64 41 26 18

NA Not available. ¹Water was transferred to the basin and released to natural stream channels in excess of the quantity of surface water withdrawn by irrigation organizations. The net effect was to increase the available surface water supply to the basin or State.

SUMMARY

Summary Table 19.- NUMBER OF IRRIGATION ORGANIZATIONS, TYPE OF SERVICE, NEW CAPITAL INVESTMENT, AND WATER CONVEYED, BY SIZE OF ORGANIZATION: CENSUS OF 1959

		18 State	a, total	
Item (For definitions end explanations, see text)		Size of organization (by	/ total water conveyed)	
	0-999 acre-feet	1,000-9,999 acre-feet	10,000-99,999 acre-feet	100,000 or more acre-feet
Number of organizationsorganizations	3,984	3,656	977	
All water directly from surface and ground sourcesorganizations	3,629	3,060	758	37,604
Total water conveyedacre-feet Water deliveredacre-feet	1,418,782 1,250,901	10,162,521 8,535,875	20,982,477 16,585,362	30,393
To farm and residential users onlyorganizations	1,250,901 3,604 1,236,534	2,957 8,134,885	619 12,480,997	9,087
To farm and recidential users and other	15	85	119	
irrigation organizationsorganizations	7,748	219,334	2,059,707	8,101
Water to other irrigation organizationsacre-feet To other irrigation organizations onlyorganizations	2,485	119,772 16	1,538,548	4,118
acre-feet	4,134	61,884	506,110	9,086
Part of water from other organizationsorganizations Total water conveyedacre-feet	106 49,458	194 782,426	126 4,161,981	10,902
From surface and ground water sourcesacre-feet	16,195	343,294	1,753,053	71: 10,18
From other irrigation organizationsacre-feet Water deliveredacre-feet	33,263 44,055	439,132 673,812	3,581,181	8,84
To farm and residential users onlyorganizations	103 42,699	172 569,909	2,376,181	2,86
To farm and residential users and other	42,099	21	41	_,,55
irrigation organizationsorganizations Water to farm and residential usersacre-feet	957	62,317	704,539	3,90
Water to other irrigation organizationsacre-feet	399	35,286	451,193	2,07
To other irrigation organizations onlyorganizations acre-feet		6,300	49,268	
All of water from other organizationsorganizations	169 75,343	402 1,465,425	93 2,257,823	1,77
Total water conveyedacre-feet Water deliveredacre-feet	67,498	1,292,830	1,869,419	1,58
To farm and residential users onlyorganizations acre-feet	159 63,454	376 1,190,089	1,484,965	1,05
To farm and residential users and other	9	18	15	
irrigation organizationsorganizations Water to farm and residential usersacre-feet	1,929	45.768	178,861	20
Water to other irrigation organizationsacre-feet To other irrigation organizations onlyorganizations	1,691	35,249	159,881	20
acre-feet	424	21,724	45,712	11:
No water conveyedorganizations	80			
WATER FROM OTHER SOURCES				
Organizations reporting NO water from other sources used on land served by the organizationorganizations	3,393	3,062	745	
acres served acres irrigated	834,080 568,068	3,580,196 2,910,467	5,971,417 4,895,782	6,10 5,52
Organizations reporting water from other sources used				
on land served by the organizationorganizations	496 172,897	563 1,070,474	203 2,211,416	1,22
acres irrigated	119,016	777,540	1,720,830	1,17
NEW CAPITAL INVESTMENT, 1950-1959				
Expenditures for additional new works and equipment for irrigation and drainage,				
January 1, 1950-December 31, 1959organizations	1,574 125,642,357	1,876 169,969,032	224,044,750	519,93
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959	123,042,337	107,707,032	[,
Total entering conveyance systems in basinorganizations	3,904	3,656	976	
acre-feet From another drainage basinorganizations	1,399,977	10,505,815	22,735,530	38,35
acre-feet From Drainage Basia aumber				
From natural sources within basinorganizations	3,736	3,253	882	
acre-feet Surface waterorganizations	1,399,977 2,959	10,505,815 3,058	22,735,530 845	38,35
acre-feet Cround waterorganizations	1,139,745	9,827,106	21,487,556	36,23
acre-feet	833 260,232	678,709	1,247,974	2,12
From other organizations in the basinorganizations receiving acre-feet	277 108,606	596 1,904,557	4,666,751	11,96
Total leaving conveyance systemsorganizations	3,904	3,656	976	
acre-feet Conveyance loss in basinorganizations	1,499,450 2,958	12,130,157 3,294	24,651,569	34,71
acre-feet	207,135	1,740,518	4,810,909	9,08
Conveyed to another drainage basinorganizations acre-feet	:::	:::	:::	
acre-feet To drainage basin numberD. B. No Delivered for use in the basinorganizations	3,895	3,629	954	
	1,292,315 3,892	10,389,639	19,840,660	25,62
To farm irrigation water usersorganizations acre-feet	1,260,131	9,908,012	18,851,128	24,45
To residential water usersorganizations	28,090	433 314,390	182 434,122	83
For other useorganizations	38	130 167,237	96 555,410	34
Delivered to other irrigation organizations organizations delivering	4,094 35	150	198	
acre-feet	9,133	280,215	2,750,712	15,60
AVERAGE DELIVERY OF IRRIGATION WATER PER ACRE, 1959				
Per acre irrigated, as reported by irrigation organization: All organizationsacre-feet	2.0	2.7	2.8	
All organizationsacre feet Organizations reporting 80 water from other sources used on land served by the organizationorganizations	3,393	3,062	745	
			3.0	

Summary Table 20.—ORGANIZATIONS REPORTING QUANTITIES OF IRRIGATION WATER DELIVERED DIRECT TO FARMS AND TO OTHER ORGANIZATIONS, 1959 AND 1949; FOR USES OTHER THAN IRRIGATION, 1959; AND AVERAGE QUANTITY OF WATER DELIVERED TO FARMS PER ACRE OF IRRIGATED LAND, 1959, 1949, AND 1939

[Interstate organizations are counted in each State in which they had irrigation works; but only once in the 18 States total. See text]

					Water de	livered ¹					Average quantity of water			
State		Direct t	o farms			To other organizations				For use other than irrigation		delivered to farms per acre of irrigated land ²		
Succe	Organiz repor		Acre-	feet		Organizations reporting		Acre-feet		Acre-feet,	(Acre-feet)			
	1959	1949	1959	1949	1959	1949	1959	1949	reporting, 1959	1939	1959	1949	1939	
18 States, total	8,585	9,283	54,471,479	45,223,037	444	1,801	18,644,449	23,143,852	1,161	2,678,632	3.1	3.4	3.1	
Arizona	153	147	2,487,199	2,079,862	5	27	1,003,876	458,865	27	137,621	3.9	4.0	3.7	
California	1,039	1,277	12,350,452	8,962,033	96	246	11,546,796	5,663,456	275	1,256,556	3.0	3.1	2.8	
Colorado	1,888	2,075	5,943,099	6,201,791	118	460	1,432,394	1,945,226	161	313,227	2.2	2.9	2.9	
Idaho	911	933	10,884,661	10,046,095	76	209	2,511,850	8,209,304	122	236,124	4.7	5.3	5.7	
Kansas and Oklahoma	13	12	162,301	88,657	1	7	55,294	12,495	1	3,921	1.5	1.7	1.6	
Louisiana	203	312	567,804	515,760		13		7,460			3.1	2.0	2.4	
Montana	1,041	965	4,333,721	3,543,947	26	196	261,813	627,795	37	55,255	3.2	3.3	2.3	
Nebraska	66	63	1,095,537	950,477	4	17	87,111	172,182	1	157	1.6	1.9	2.4	
Nevada	113	152	824,592	931,394	3	25	189,781	345,466	13	10,730	3.1	3.0	3.3	
New Mexico	445	593	900,617	1,230,618	12	26	39,971	266,517	82	26,874	2.5	2.9	3.0	
North Dakota	9	5	71,922	165,952		1		1,800			1.8	2.4	1.8	
Oregon	645	608	2,885,053	3,113,333	11	138	278,847	817,108	49	63,774	3.4	3.4	3.6	
South Dakota	24	20	99,088	106,202		3		1,470	4	710	1.2	1.6	1.1	
Texas	102	107	1,933,755	2,577,914	9	48	100,899	357,990	33	267,852	2.0	2.3	2.5	
Utah	965	1,008	2,956,192	3,084,332	52	151	557,722	1,214,120	262	211,821	2.7	3.1	3.2	
Washington	345	392	3,697,304	2,479,273	10	100	62,388	2,012,537	57	66,937	4.4	5.2	5.6	
Wyoming	659	668	3,278,182	2,405,796	25	158	515,707	3,972,444	38	27,073	3.1	2.6	2.2	

Whater delivered by Interstate organizations is the amount delivered within the State only for 1959, but is for the entire organization in 1949. See text.

For 1959, 1949, and 1939 calculated average quantity of water per acre for total irrigated land, all irrigation organizations, primary and supplemental irrigation combined.

STATE TABLES

ARIZONA

(81)

State Table 1.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950

\exists			Gulf of (alifornia exc do River (IV-	luding A)		Colo	rado River be cluding Gila	low Lees Ferr River (IV-B)	у,
								Colors	do River dire	ct
	Item (For definitions and explanations, see text)	The State (Gulf of California)	Total	Vamori (Valshni) Wash	Whitewater Draw	Colorado River, total	Total	Total	Below Imperial Dam	Above Imperial Dam
				(1)	(2)				(la)	(1b)
1 2	Total acres irrigated in Census year1959	1,152,450 979,114	22,000 10,966	4,000 2,555	18,000 8,411	1,130,000 968,148	168,000 104,723	146,000 87,700	96,000 71,255	50,000 16,445
3	Irrigation organizationsorganizations 1959 1949	155 163	1 3	1 3	:::	154 160	42 42	13 10	8	5 8
5	Service area, 1959: Farm area reported served by organizationsacres 1959	766,448	(D)	(D)		764,948	217,347	190,946	155,130	35,816
6	Farm area reported irrigated by organizationsacres 1959	643,846	(D)	(D)		642,846	176,569	161,014	129,870	31,144
7	Water users served, totalwater users 1959	43,729	(D)	(D)		43,727	2,530	1,277	998	279
8	Farm irrigation water userswater users 1959	12,555	(D)	(D)		12,553	2,133	1,149	918	231
9	Residential water userswater users 1959	27,727				27,727	381	116	70	46
10	Other water userswater users 1959	3,447				3,447	16	12	10	2
	LAND IRRIGATED BY SOURCE OF WATER, 1959	mm 252	22,000	4,000	18,000	750,000	31,000	23,000	17,000	6,000
11	Ground water sourcesacres	772,353 380,097	22,000	4,000	10,000	380,000	137,000	123,000	79,000	44,000
12	Surface water sources	380,097				300,000				
13 14	Total entering conveyance systems in basin	155 3,558,266	1 (D)	(D)		154 3,555,116	42 1,227,995	13 1,180,410	917,279	5 263,131
15 16	From another drainage basinorganizations acre-feet	299,479		:::		299,479	299,479	299,479	299,479 Calif.	:::
17	From drainage basin numberD. B. No					• • • •		• • • •	IV-B-la	•••
18 19	From natural sources within basinorganizations acre-feet	146 3,258,787	(D)	(D)		3,255,637	36 928,516	880,931	617,800	263,131
20 21	Surface waterorganizations acre-feet	1,991,449	:::	:::	:::	1,991,449	920,000	880,881	617,800	263,081
22 23	Ground waterorganizations acre-feet	1,267,338	(D)	(D)	:::	1,264,188	8,516	50	:::	1 50
24 25	From other organizations in the basin	14 1,003,876	:::		:::	14 1,003,876	701,694	701,694	701,694	
26 27	Total leaving conveyance systemsorganizations acre-feet	155 3,558,266	(D)	(D)		154 3,555,116	1,227,995	1,180,410	917,279	5 263,131
28 29	Conveyance loss in basinorganizations acre-feet	148 925,506	(D)	(D)		147 925,356	38 255, 903	10 245,370	144,416	100,954
30 31	Conveyed to another drainage basinorganizations acre-feet	7,940		:::		7,940	7,940	:::	:::	
32	To drainage basin number							12		
33 34	Delivered for use in the basinorganizations acre-feet	2,624,820	(D)	(D)	:::	2,621,820	964,152	935,040	772,863	162,177
35 36	To farm irrigation water usersorganizations acre-feet	153 2,487,199	(D)	(D)	:::	2,484,199	960, 533	932,263	770,536	161,727
37 38	To residential water usersorganizations acre-feet	69,516	:::	:::		69,516	1,240	640	440	200
39 40	For other useorganizations acre-feet	10 68,105	:::	:::		68,105	2,379	2,137	1,887	250
41 42	l'elivered to other u n gation organisationsorganizations delive r ing acre-feet	1,003,876		:::	:::	1,003,876	3 701,694	701,694	701,694	
43	Average delivery of irrigation water per acre irrigated as reported by organizationsacre-feet	3.9	(D)	(D)		3.9	5.4	5.8	5.9	5.2
44	NEW CAPITAL INVESTMENT, 1950-1959 Expanditures for additional new works and equipment for irrigation and drainage, Jan. 1, 1950-Dec. 31, 1959organizations Data and above to covaid disabance of information for	76 62,924,613	1 (D)	1 (D)		75 62,424,613	15 41,137,602	7 40,945,315	32,942,315	8,003,000

D Data not shown to avoid disclosure of information for individual organizations.

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State Table 1.-NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950-Continued

_		Colorado	River below I	ees Ferry,	excluding			Gila River	(14-0)		
		Gí	la River (IV-					Gila	River direct	iver direct	
	Item (For definitions and explanations, see text)	Virgin River	Little	Below Hunt	Above Hunt	Total	Total	Below Gillespie Dam	Gillespie Dam to Laveen Gage (including Salt and Aqua Fria Rivers)	Laveen Gage to Coolidge Dam	Above Coolidge Dam
	Total acres irrigated in Census year	2,000	20,000	11,000	9,000		661,000	72,000	, <u>.</u> .,		
2	1949	684	16,339	9,332	7,007	9 61, 000 857,039	594,836	27,989	426,000 438,393	112,000 87,576	51,000 40,878
4	Irrigation organizationsorganizations 1959 1949	4	25 27	18 18	7 9	83 96	49 67	3	12 25	8 6	29 33
5	Service area, 1959: Farm area reported served by organizationsacres 1959	690	25,711	10,167	15,544	522,099	467,804		328,222	96,520	43,062
6	Farm area reported irrigated by organizationsacres 1959	690	14,865	5,533	9,332	454,358	417,534		308,582	66,446	42,506
7	Water users served, totalwater users 1959	24	1,229	725	504	39,438	36,536		33,291	2,088	1,157
8	Farm irrigation water userswater users 1959	24	960	599	361	9,062	8,216		5,026	2,069	1,121
9	Residential water userswater users 1959		265	122	143	26,945	24,894		24,858		36
10	Other water userswater users 1959		4	4		3,431	3,426		3,407	19	
	LAND IRRIGATED BY SOURCE OF WATER, 1959										
11	Ground water sourcesacres	1,000	7,000	5,000	2,000	719,000	444,000	11,000	323,000	71,000	39,000
12	Surface water sourcesacres	1,000	13,000	6,000	7,000	242,000	217,000	61,000	103,000	41,000	12,000
13 14	Total entering conveyance systems in basin	11,965	25 35 ,62 0	18 23,356	7 12,264	83 2,277,765	49 2,132,681		12 1,617,866	8 351,040	165,267
15 16	From another drainage basinorganizations acre-feet		:::		:::	:::	212,580		212,580	1,492	
17	From drainage basin numberD. B. No								IV-C-2	IV-C-1b	
18 19	From natural sources within basinorganizations acre-feet	11,965	25 35,620	18 23,356	7 12,264	80 2,277,765	46 1,920,101		11 1,405,286	6 349,548	29 165,267
20 21	Surface waterorganizations acre-feet	11,965	22 27,154	16 16,234	10,920	57 1,041,712	34 804,510		7 515,975	2 198,245	25 90,290
22 23	Ground waterorganizations acre-feet		5 8,466	7,122	1,344	50 1,236,053	37 1,115,591		9 889,311	6 151,303	74,97
24 25	From other organizations in the basin organizations receiving acre-feet					8 302,182	8 302,182	:::	6 88,300	2 213,88 2	
26 27	Total leaving conveyance systemsorganizations acre-feet	11,965	25 35,620	18 23,356	7 12,264	83 2,277,765	49 2,132,681		1,617,866	8 351,040	165,267
28 29	Conveyance loss in basinorganizations acre-feet	1,759	24 8,774	18 7,482	6 1,292	81 659,985	49 634,955		12 469,916	8 143,706	29 21,333
30 31	Conveyed to another drainage basinorganizations acre-feet	7,940		:::			1 44,176		1,492	1 44,176	
32	To drainage basin numberD. B. No	TV-B-3a							IV-C-lc	IV-C-3a	
33 34	Delivered for use in the basinorganizations acre-feet	2,266	25 26,846	18 15,874	7 10,972	82 1,617,780	48 1,453,550		12 1,146,458	7 163,158	29 143,934
35 36	To farm irrigation water usersorganizations acre-feet	2,266	25 26,004	18 15,477	7 10,527	82 1,484,829	48 1,323,997		1,018,400	7 161,793	143,804
37 38	To residential water usersorganizations acre-feet	:::	5 600	3 155	2 445	9 67,225	64,133	:::	2 64,003	:::	130
39 40	For other useorganizations acre-feet		242	1 242		7 65,726	65,420		64,055	1,365	
41 42	Delivered to other impation organizations delivering					2 302,182	2 302.182	:::	88.300	1 213,882	
43	Average delivery of irrigation water per acre irrigated as reported by organizationsacre-feet	3.3	1.7	2.8	1.1	302,182	302,182		3,3	213,882	3.4
44	NEW CAPITAL INVESTMENT, 19:0-19:99 Expenditures for additional new works and equipment for irrigation and drainage, Jan. 1, 19:0-Dec. 31, 19:99	72,000	120,287	25,287	95,000	21,047,143	35 19,834,513	:::	17,136,115	2,084,870	20 613,528

State Table 1.-NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950-Continued

			Gil	la River (IV-C	-Continued			Col. Le	orado River a es Ferry (IV-	bove D)
			San	nta Cruz River						
	Item (For definitions and explanations, see text)	Verde River	Total	Below Rillito Gage	Above Rillito Gage	San Pedro River	Willcox Playe	Total	Colorado River direct: Below Cameo, Colorado	San Juan River direct
		(2)		(3a)	(3ъ)	(4)	(5)		(1a)	(2a)
1 2	Total acres irrigated in Census year1959	14,000 11,966	230,000 230,277	193,000 210,969	37,000 19,308	8,000 5,992	48,000 13,968	1,000 6,386		1,000
3	Irrigation organizationsorganizations 1959 1949	22 25	9 11	5 7	4	3 2		29 23		2'
5	Service area, 1959: Farm area reported served by organizationsacres 1959	8,536	29,208	25,758	3,450	13,471	3,080	(D)	(D)	(D)
6	Farm srea reported irrigated by organizationsacres 1959	7,305	21,652	18,732	2,920	5,787	2,080	(D)	(D)	(D)
7	Water users served, totalwater users 1959	378	1,140	999	141	92	1,292	(D)	(D)	(D)
8	Farm irrigation water userswater users 1959	346	359	266	93	92	49	(D)	(D)	(D)
9	Residential water userswater users 1959	31	7777	729	48		1,243	(D)	(D)	(D)
10	Other water userswater users 1959	1	4	4						
	LAND IRRIGATED BY SOURCE OF WATER, 1959									
13	Ground water sourcesacres	11,000	209,000	172,000	37,000	8,000	47,000			
12	Surface water sourcesacres	3,000	21,000	21,000			1,000	1,000		1,00
	WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959									
1.3 14	Total entering conveyance systems in basinorganizationsacre-feet	22 238,342	9 110,498	97,984	12,514	3 35,791	3 17,209	29 (D)	2 (D)	2' (D
15 16	From another drainage basinorganizations	***	1 44,176	1 44,176					:::	:::
17	From drainage basin number			IV-C-1c						
18 19	From natural sources within basinorganizations acre-feet	22 238,342	8 66,322	53,808	12,514	3 35,791	3 17,209	29 (D)	(D)	2* (D)
20 21	Surface waterorganizations acre-feet	20 227,089	9,713	:::	9,713		1 400	28 (D)	(D)	(D)
22	Ground waterorganizations acre-feet	11,253	5 56,609	53,808	2,801	35,7 91	16,809	5 (D)	(D)	(D
24 25	From other organizations in the basinorganizations receiving			:::	• • • • • • • • • • • • • • • • • • • •				:::	:::
26 27	Total leaving conveyance systemsorganizations acre-feet	22 238,342	110,498	97,984	12,514	35,79 1	17,209	29 (D)	(D)	2 (D
28 29	Conveyance loss in basinorganizations acre-feet	20 3,040	16,346	14,906	1,440	3 5,278	3 366	28 (D)	(D)	(D)
30 31	Conveyed to another drainage basinorganizations acre-feet	212,580	:::	:::	:::		***		:::	::
32	To drainage basin number	IV-C-1b								
33 34	Delivered for use in the basinorganizations acre-feet	21 22,722	9 94,152	5 83,078	11,074	3 30, <i>5</i> 13	3 16,843	29 (D)	(D)	2' (D
35 36	To farm irrigation water usersorganizations acre-feet	21 22,635	9 91,635	5 80,647	10,988	3 30, <i>5</i> 13	3 16,049	29 (D)	(D)	2' (D
37 38	To residential water usersorganizations acre-feet	12 12	2,286	2,200	1 86		1 794	7 (D)	(D)	(D
39 40	For other useorganizations	1 75	231	231	•••					::
41 42	L'elivered to other irrigation organizations delivering									::
43	Average delivery of irrigation water per acre irrigated as reported by organizationsacre-feet	3.1	4.2	4.3	3.8	5.3	7.7	(D)	(D)	(D
44	NEW CAPITAL INVESTMENT, 1950-1959 Expenditures for additional new works and equipment for irrigation and drainage, Jan. 1, 1950-Dec. 31, 1959	10 266,884	4 679,000	3 599,000	g'o,000	2 219,246	47,500	7 (D)	1 (D)	(D

D Data not shown to avoid disclosure of information for individual organizations.

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State Table 2.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950

Item (For definitions and explanations, see text)	Arizona, total	Gulf of California (excluding Colorado River) and Gila River	Item (For definitions and explanations, see text)	Arizona, total	Gulf of California (excluding Colorado River) and Gila River
		(IV-A and C)			(IV-A and C)
rrigation organizations, total	155	84	TYPE OF SERVICE, 1959		
numberorganizations 1959	163	99	All water directly from surface and ground water sourcesorganizations	140	
trea irrigated as reported by organizationsacres 1959	643,846	455,358	Total water conveyedacre-feet	3,100,324	2,081,5
arm water users served directlywater users 1959	55°,958 12,555	459,026 9,064	Water deliveredacre-feet To farm and residential	2,378,826	1,489,3
Total water conveyedacre-feet 1959	4,562,142	2,583,097	users onlyorganizations	136 768,299	538,2
TYPE OF ORGANIZATION			To farm and residential users and other	ŕ	
Unicorporatedorganizations 1959	42 61	36 50	irrigation organizationsorganizations Water to farm and residential	2	
Farm area irrigated directlyacres 1959	17,583	16,723	water to other irristion	649,600	649,00
Farm water users served directlywater users 1959	587	544	organizationsacre-feet To other irrigation organizations	88,300	88,30
Total water conveyedacre-feet 1959	80,205	77,676	onlyorganizations acre-feet	872,627	213,8
Incorporatedorganizations 1959	34 37	21 27	Part of water from other		
Farm area irrigated directlyacres 1959 Farm water users served	308,784	252,176	organizationsorganizations Total water conveyedacre-feet	630,007	280,4
directlywater users 1959 Total water conveyedacre-feet 1959	5,802 1,835,551	4,848 1,492,126	From surface and ground water sourcesacre-feet	161,463	199,4
1-1-1-1	15		From other irrigation organizationsacre-feet	468,544	81.0
districtorganizations 1959	12	7 9	Water deliveredacre-feet	489,253	230,1
Farm water users served	187,068	96,426	To farm and residential users onlyorganizations	6	
directlywater users 1959 Total water conveyedacre-feet 1959	1,636 1,033,978	740 385,417	acre-feet To farm and residential users and other irrigation organizationsorganizations	272,272 1	230,1
.S. Bureau of Reclamation; projects and stor- age systems operated by bureauorganizations 1959	2		Water to farm and residential usersacre-feet	215,191	
1949 Farm area irrigated directlyacrea 1959	3,082		Water to other irrigation organizationsacre-feet	1,790	
Farm water users served directlywater users 1959	92		To other irrigation organizations onlyorganizations		
Total water conveyedecre-feet 1959	699,904		acre-feet		
. S. Bureau of Reclamation; operated			All of water from other organizationsorganizations	8	
by water users organizations 1959	NA.	1 NA	Total water conveyed	831,811 692,512	221,1
Farm area irrigated directlyacres 1959 Farm water users served	312,389	(D)	To farm and residential users only organizations	0,2,5,5	137,0
directlywater users 1959 Total water conveyedacre-feet 1959	4,507 2,084,486	(D) (D)	acre-feet To farm and residential users	492,199	137,68
J. S. Bureau of Indian Affairsorganizations 1959	59	17	and other irrigation		
Farm srea irrigated directly scres 1959	48 125,574	10 88,278	organizationsorganizations Water to farm residential	1	•
Farm water users served			water to other irrigation	159,154	*
directly	4,427 897,605	2,921 612,979	organizationsacre-feet To other irrigation organizations	41,159	
ommercialorganizations 1959			onlyorganizations acre-feet		
1949 Farm area irrigated directlyacres 1959	1	i	No water conveyedorganizations		
Ferm water users served directly			WATER FROM OTHER SOURCES		
Total water conveyedacre-feet 1959			Organizations reporting NO water from		
tateorganizations 1959	1	1	other sources used on land served by the organizationorganizations	124	5
Farm area irrigated directlyacres 1959	(D)	(D)	acres served acres irrigated	398,253 308,298	154,05 118,46
Farm water users served directly	(D)	(D)	Water delivered to farmsacre-feet acre-feet per acre	1,436,080	432,04
Total water conveyedacre-feet 1959	(d)	(D)	Organizations reporting water from other	4-7	3.
Cityorganizations 1959	2 2	2 2	sources used on land served by the organizationorganizations	29	2
Farm mater users served	(D)	(D)	acres served acres irrigated	369,969 337,322	369,96 337,32
directlywater users 1959 Total water conveyedacre-feet 1959	(D)	(D) (D)	Water delivered to farmsacre-feet scre-feet per scre	1,056,145	1,056,14

D Data not shown to avoid disclosure of information for individual organizations.

State Table 2.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Continued

Item (For definitions and explanations, see text)	Arizona, total	Gulf of California (excluding Colorado River) and Gila River	Item (For definitions and explanations, see text)	Arizona, total	Gulf of California (excluding Colorado River) and Gila River
		(IV-A and C)			(IV-A and C)
WATER DELIVERED PER ACRE			SIZE OF ORGANIZATION—Continued		
Organizations reporting NO water from			Size of organization (acre-feet of water		
other sources used on same land:		_	delivered directly to farms):	2	1
0.1 to 0.9 acre-feet per acreorganizations	3,784	3,044	Noneorganizations	- 2	1
acres irrigated 1.0 to 1.9 acre-feet per acreorganizations	26	5,044		45	14
acres irrigated	14,539	2,330	1 to 299 acre-feetorganizations	5,059	1,393
2.0 to 2.9 acre-feet per acreorganizations	29	1.2	300 to 999 acre-feetorganizations	34	21
acres irrigated	59,918	54,154	acre-feet	19,301	12,728
3.0 to 3.9 acre-feet per acreorganizations acres irrigated	10,874	4,110			
4.0 to 4.9 acre-feet per acreorganizations	11	7,110	1,000 to 2,999 acre-feetorganizations	30	17
acres irrigated	82,133	35,556	acre-feet	55,314	31,311
5.0 to 5.9 acre-feet per acreorganizations	17	12	3,000 to 9,999organizations	108,055	67,100
acres irrigated	100,778	12,496	gcre-reet	100,000	07,100
6.0 to 6.9 acre-feet per acreorganizations acres irrigated	8,270		10,000 to 29,999 acre-feetorganizations	10	10
7.0 to 7.9 acre-feet per acreorganizations	1	1	10,000 to 29,999 acre-reetarganizations	172,809	172,809
acres irrigated	60	60	30,000 to 99,999 acre-feetorganizations	9	7
8.0 to 9.9 acre-feet per acreorganizations acres irrigated	24,720	6,710	acre-feet	466,188	388,576
10.0 or more acre-feet	24,720	0,710	100,000 or more acre-feetorganizations	1,665,499	814,268
per acreorganizations	2		#CL6-16er	1,000,400	014,200
acres irrigated	3,222		Size of organization (acre-feet of water		
			conveyed):		
SIZE OF ORGANIZATION			None. organizations. 1 to 299 acre-feet organizations.	42	14
Size of organization (number of farm			1 to 299 acre-feetorganizations	5,862	1,753
irrigation water users served directly): Noneorganizations	2	1	300 to 999 acre-feetorganizations	31	17
1 to 3organizations	25	17	acre-feet	19,500	11,122
water users	58				
4 to 9organizations	32 190	20 109	1,000 to 2,999 acre-feetorganizations	28	17
water users 10 to 29organizations	190	109	acre-feet	54,381	32,217 12
10 to 29 water users	579	244	3,000 to 9,999 acre-feetorganizations	104,194	57,610
30 to 99organizations	39	20	#C12-106 5	-04,254	2.,020
water users	2,147	1,023	10,000 to 29,999 acre-feetorganizations	13	11
100 to 299organizations water users	2,688	997	acre-feet	182,051	161,951
water users 300 to 999organizations	2,000	4	30,000 to 99,999 acre-feetorganizations	10	8
water users	1,874	1,558	acre-feet	579,627	488,348
1,000 or moreorganizations	2	5,158	100,000 or more acre-feetorganizations	9,576,626	1,830,541
water users	5,158	5,158	doie-rect	-,510,000	

State Table 3.-LAND IRRIGATED BY SOURCE OF WATER, BY DRAINAGE BASINS: CENSUS OF 1959

	(For definitions and explanations, see text)	Arizona, total	Gila River (IV-C)	Culf of Californis excluding Colorado River (IV-A)
1	Total scres irrigatedfarms reporting	5,391	4,278	171
2	acres	1,152,450	960,873	21,825
3	Acres irrigated by sprinklersferms reporting	113	96	***
4	scres	4,635	4,227	***
5	Sprinklers onlyfarms reporting	73	65	***
6	acrea	3,157	2,913	***
	LAND IRRIGATED, BY SOURCE OF WATER TO INDIVIDUAL FARMS, 1959			
7	Ground water sources on farmfarms reporting	2,159	1,818	167
8	acres	581,238	530,392	21,753
9	Ground water sources on farm only farms reporting	1,499	1,215	166
10	acres	408,794	369,693	21,729
11	Surface sources on farmfarms reporting	300	223	3
12	acres	94,845	82,941	71
13	Surface sources on farm onlyfarms reporting	210	152	3
14	BCTes	85,836	76,923	71
15	Irrigation organization sourcesfarms reporting	3,608	2,849	1
16	ccres	476,367	347,540	1
17	Irrigation organization sources onlyfarms reporting	3,007	2,299	1
18	scres	332,151	219,310	1
19	Both farm ground water sources and surface sourcesfarms reporting	73	60	1
20	acres	28,499	24,969	24
21	Both irrigation organization and farm ground water or farm surface sourcesfarms reporting	602	552	
22	acres	297,170	269,978	
_				

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950

				Arizona, total			
Item (For definitions and explanations, see text)		Muti	iej		U. S. Bureau c	f Reclamation	Commercial,
(For delinitions and explanations, see text)	All types	Unincorporated	Incorporated	District	Projects and storage systems overated by bureau	Operated by water users	Indian, State, city, and other
Irrigation organizations	155 163	42 61	34 37	15 12	2 2	5 NA	6
Service area, 1959: Area served, as reported by organizations	766,448	18,136	339,139	216,383	3,304	341,354	189,48
Area irrigated, as reported by organizationsacres	643,846	17,583	308,784	187,068	3,082	312,389	127,32
fater users served, 1959, total	43,729 12,555 27,727 3,447	644 587 57	35,155 5,802 25,946 3,407	2,946 1,636 1,294 16	92 92 	32,839 4,507 24,922 3,410	4,89 4,43 43
TYPE OF SERVICE, 1959							
All water directly from surface and ground water sources. organizations. Total water conveyed	3,100,324 2,378,826	42 80,205 73,826	32 1,436,696 961,144	9 263,635 208,654	658,745 658,745	975,885 737,300	661,04 476,45
only	768,299	73,826	223,244	208,654	:::	:::	262,57
irrigation organizationsorganizations Water to farm and residential	2		2			1	
water to other irrigation	649,600		649,600			649,000	
organizations	88,300		88,300			88,300	
acre-feet	872,627				658,745		213,88
Part of water from other organizations organizations. Total water conveyed acre-feet. From surface and ground water	630,007	:::	398,855	195,363	:::	431,489	35,78
sources	161,463 468,544 489,253		96,376 302,479 296,551	63,298 132,065 160,959	:::	43,945 387,544 259,101	1,76 34,00 31,74
onlyorganizations acre-feet	6 272,272		79,570	3 160,959		42,120	31,74
To farm and residential users and other irrigation organizationsorganizations Water to farm and residential	1		1			1	
usersacre-feet Water to other irrigation organizationsacre-feet	215,191 1,790		215,191 1,790			215,191 1,790	
To other irrigation organizations onlyorganizations							
acre-feet All of water from other organizationsorganizations					1	2	
Total water conveyedacre-feet Water deliveredacre-feet To farm and residential users	831,811 692,512	:::	:::	574,980 524,442	41,159 35,492	567,680 517,542	215,6° 132,5°
onlyorganizations acre-feet To farm and residential users and other	492,199	:::	:::	324,1 2 9	35,492	317,229	132,5
irrigation organizationsorganizations Water to farm and residential	1			1	•••	1	
users	159,154 41,159			159,154 41,159		159,154 41,159	
To other irrigation organizations onlyorganizations	*******						
No water conveyedorganizations		:::	:::	:::	:::	:::	::
WATER FROM OTHER SOURCES Organizations reporting no water from other sources used on the land served by the							
organizationorganizations acres served acres irrigated water delivered to farms (acre-feet)	124 398,253 308,298 1,436,090	32 14,111 13,740 65,026	20 94,051 67,996 294,497	11 138,525 120,073 665,447	3,304 3,082 35,492	151,354 123,389 733,274	148,26 103,40 375,61
Organizations reporting water from other sources used on land served by the	4.7	4.8	4.3	5.5	11.5	5.9	
organization. organizations. acres served. acres irrigated water delivered to farms (acre-feet) acre-feet per acre	29 369,969 337,322 1,056,145 3.1	10 4,449 4,267 9,068 2.1	246,438 242,138 810,457 3.3	77,858 66,995 186,608 2.8		190,000 186,000 585,000 3.1	41 ,22 23 ,93 50 ,03 2
NEW CAPITAL INVESTMENT, 1950-1959							
Expenditures for additional new works and equipment for irrigation and drainage, January 1, 1950-Recember 31, 1959organizations By U. S. B. R	76 31,803,546 31,121,067	15 93,385	22 16,514,411	12 31,803,546 2,958,493		5 31,803,546 15,058,951	11,554,77

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

			-	Arizona, total	-	· · · · · · · · · · · · · · · · · · ·	
Item (For definitions and explanations, see text)		Mart	unI		U. S. Bureau o	of Reclamation	Commercial,
(For definitions and explanations, see text)	All types	Unincorporated	Incorporated	District	Projects and storage systems operated by bureau	Operated by water users	Indian, State, city, and other
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959							
Total entering conveyance systemsorganizations acre-feet	3,558,266	80,205	1,829,551	326,933	658,745	1,425,741	662,832
From another drainage basinorganizations scre-feet	299,479	:::	299,479			299,479	
From drainage basin			33	12			58
From sources within basinorganizations acre-feet Surface waterorganizations.	146 3,258,787 117	42 80,205	1,530,072	326,933	658,745	1,126,262	662,832 47
acre-feet Ground waterorganizations	1,991,449	24,568 16	825,057 21	1-2,094 9	658,745	643,648 1	485,173 17
acre-feet	1,267,338	55,637	705,015	329,027		482,614	177,659
From other organizations in the basinorganizations receiving acte-feet	1,003,876		6,000	707,045	41,159	658,745	249,672
Total leaving conveyance systemsorganizations acre-feet	155 3,558,266	42 80,205	34 1,745,461	992,819	2 41,159	5 1,953,057	62 698,622
Conveyance loss in basinorganizations	148 925,506	42 6,379	32 505,679	13 137,876	1 5,667	5 505,468	60 269,905
Conveyed to another drainage basinorganizations	7,940		7,940	:::			
To drainage basin number	·					•••	
Delivered for use in the basinorganizations acre-feet	153 2,624,820	73,826	34 1,231,842 34	854,943	35,492	1,447,589	61 428,717 61
To farm irrigation water usersorganizations acre-feet	153 2,487,199 24	73,738	1,100,284	852,055 3	35,492	1,318,274	425,630 11
To domestic water usersorganizations acre-feet For other useorganizations	69,516	88	67,321	841		64,240	1,266
acre-feet	68,105	:::	64,237	2,047		65,075	1,821
Delivered to other urigation organizations delivering. acre-feet	1,003,876	:::	90,090	1 41,159	658,745	3 131,249	213,882
SIZE OF ORGANIZATION, 1959	1,003,070		2,02	42,257	0,00,140	132,043	
Size of organization (number of farm irrigation water users):							
Noneorganizations 1 to 3 water usersorganizations	2 25	13			1		1 9
4 to 9 water usersorganizations 10 to 29 water usersorganizations	32 34	19	3 5		:::		10 21
30 to 99 water usersorganizations 100 to 299 water usersorganizations	39 16	1	16 6	8 5	1	1 2	13 5
300 to 999 water usersorganizations 1,000 or more water usersorganizations	5 2	1	1	1		1	2
Size of organization (acre-feet of water delivered directly to farms):							
Noneorganizations 1 to 299 acre-feetorganizations	2 45	17			1	:::	26 15
300 to 999 acre-feetorganizations 1,000 to 2,999 acre-feetorganizations	34 30 18	14	5 7 9	3 5	:::	:::	11 3
3,000 to 9,999 acre-feetorganizations 10,000 to 29,999 acre-feetorganizations	10		8	1			1
30,000 to 99,999 acre-feetorganizations 100,000 or more acre-feetorganizations	9 7		1 2	2 4		1 4	1
Size of organization (acre-feet of water conveyed):							
Noneorganizations 1 to 299 acre-feetorganizations	42	17	1 5	:::		:::	24
300 to 999 acre-feetorganizations 1,000 to 2,999 acra-feetorganizations	31 28	12	4 9	2 5	***		12
3,000 to 9,999 acre-feetorganizations 10,000 to 29,999 acre-feetorganizations	21 13 10	2	9 10 3	2 2		:::	. 5 1 3
30,000 to 99,999 acre-feetorganizations 100,000 or more acre-feetorganizations	10		2	4	1	5	3

MA Not evaliable.

When the busin and released to natural stream channels in excess of the quantity of surface water withdrawn by irrigation organizations. The net effect was to increase the available surface water supply in the basin or State.

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

		Culf of Califo	rnia (excluding C	Colorado River) a	nd Cila River (IV-	A and IV-C)	
Item		Mut	ual		U. S. Bureau o	of Reclamation	Commercial.
(For definitions and explanations, see text)	All types	Unincorporated	Incorporated	District	Projects and storage systems operated by bureau	Operated by water users	Indian, State, city, and other
Irrigation organizationsorganizations 1959	84 99	36 50	21 27	7 9	:::	1 NA	20
Service area, 1959: Area served, as reported							
by organizationsacres Area irrigated, as reported	523,599	17,106	264,191	107,289		(D)	135,01;
by organizationsacres Water users served, 1959, totalwater users	455,358 39,440	16,723 601	252,176 33,875	96,426 1,990		(D) (D)	90,03
Farm irrigation water users	9,064 26,945 3,431	544 57	4,848 25,624 3,403	740 1,244 6	:::	(D) (D)	2,93 21 2.
TYPE OF SERVICE, 1959							
All water directly from surface and ground water sourcesorganizations	76	36	20	4		1	1
Total water conveyedscre-feet. Water deliveredscre-feet. To farm and residential users	2,081,507 1,489,3%	77,676 71,675	1,392,750 935,310	232,874 181,935	:::	(D)	378,20° 300,470
onlyorganizations acre-feet	538,214	71,675	198,010	181,935			86,59
To farm and residential users and other irrigation organizationsorganizations Water to farm and residential	1		1			1	
water to other irrigation	649,000		649,000			(D)	
organizationsacre-feet To other irrigation organizations	88,300		88,300			(D)	
onlyorganizations acre-feet	213,882	:::	:::	:::	:::		213,88
Part of water from other organizations	280,408	:::	99,376	145,243	:::		35,78
From other irrigation organizationsacre-feet	199,408 81,000	:::	93,376 6,000	104,243 41,000	:::'	:::	1,78 34,00
Water deliveredacre-feet To farm and residential users onlyorganizations	230,1 52		79,570	118,839 2			31,74
To farm and residential users and other	230,152	***	79,570	118,839		•••	31,74
irrigation organizationsorganizations Water to farm and residential usersacre-feet							
Water to other irrigation organizationsacre-feet							
To other irrigation organizations onlyorganizations							
acre-feet All of water from other organizationsorganizations				1			
Total water conveyedacre-feet Water deliveredacre-feet To farm and residential users	221,182 137,688			7,300 6,900	:::		213,883 130,78
onlyorganizations acre-feet	3 137,688	:::	:::	6,900		:::	130,78
To farm and residential users and other irrigation organizationsorganizations							
Water to farm and residential usersscre-feet						•••	
Water to other irrigation organizationsacre-feet		• · · ·					
To other irrigation organizations onlyorganizations		•••					
acre-feet No water conveyedorganizations	***			:::	:::		::
WATER FROM OTHER SOURCES Organizations reporting no water from other sources used on the land served by the							
organizationorganizations	54 154,054	26 13,081	7 17,753	29,431	:::	:::	93,789
acres irrigated water delivered to farms (acre-feet) acre-feet per acre	118,460 432,040 3.6	12,880 62,875 4.9	10,038 49,813 5.0	29,431 120,269 4.1	:::		66,11 199,08 3.0
Organizations reporting water from other sources used on land served by the				ļ			
organizationorganizations acres served	29 369,969 337,322	10 4,449	246,438 242,138	77,858	:::	(D)	41,22
acres irrigated **ater delivered to farms (acre-feet) acre-feet per acre	337,322 1,056,145 3.1	4,267 9,068 2.1	242,138 810,457 3.3	66,995 186,608 2.8	:::	(D) (D) (D)	23,92; 50,01; 2,:
NEW CAPITAL INVESTMENT, 1950-1959							
Expenditures for additional new works and equipment for irrigation and drainage, January 1, 1950-Becember 31, 1959organizationsBy U. S. B. R	54 21,547,143	14 91,885	18 15,188,855	6 2,733,925	:::	1 (p)	16 3,532,478

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

		Gulf of Calif	ornia (excluding	Colorado River) a	nd Gila River (IV-	A and IV-C)	
Item		Mut	ual		U. S. Bureau c	of Reclamation	Commercial.
(For definitions and explanations, see text)	All types	Unincorporated	Incorporated	District	Projects and storage systems operated by bureau	Operated by water usera	Indian, State, city, and other
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959							20
Total entering conveyance systemsorganizations acre-feet	2,280,915	77,676	1,486,126	337,117	:::	(D)	379,996
From another drainage basinorganizations acre-feet			:::				:::
From drainage basin, D. B. No	81	36	21				18
From sources within basinorganizations acre-feet Surface waterorganizations	2,280,915	77,676	1,486,126	337,117		(D)	379,996 7
acre-feet Ground waterorganizations	1,041,712	22,039 16	794,777 15	22,339 5		(D)	202,557 15
acre-feet	1,239,203	55,637	691,349	314,778		(D)	177,439
From other organisations in the basin organisations receiving acre-feet	8 302,182	:::	6,000	48,300	:::		247,882
Total leaving conveyance systemsorganizations acre-feet	84 2,280,915	36 77,676	21 1,403,826	7 385,417	:::	(D)	20 413,996
Conveyance loss in basinorganizatione acre-feet	82 660,135	36 6,001	19 413,251	77,583	:::	(D)	20 163,300
Conveyed to another drainage basinorganizations		:::			:::		
To drainage basin numberD. B. No			• • • • • • • • • • • • • • • • • • • •				
Delivered for use in the basinorganizations acre-feet	1,620,780	36 71,675	990,575	307,834	:::	(D)	250,6% 19
To farm irrigation water usersorganizations acre-feet	1,487,829	36 71,587 2	860,270	306,877	:::	(D)	249,095
To domestic water usersorganizations acre-feet For other useorganizations acre-feet	67,225 7 65,726	88	66,310 3 63,995	797 2 160	:::	(D) 1 (D)	30 2 1,571
Delivered to other irrigation organizations	2 302,182	:::	1 88,300			1 (D)	1 213,882
SIZE OF ORGANIZATION, 1959							
Size of organization (number of fars	1 17 20 14 20 6 4	11 17 6 1	2 4 11 3 			(D) (D) (D) (D) (D) (D)	1 4 3 4 4 1 2
Size of organization (acre-feet of water delivered directly to farms): Organizations (acre-feet) organizations (acre-feet) organizations (acre-feet) organizations (acre-feet) organizations (acre-feet) organizations (acre-feet) organizations (acre-feet) organizations (acre-feet) organizations (acre-feet) organizations (acre-feet) organizations (acre-feet) organizations (acre-feet) organizations (acre-feet) organizations (acre-feet) organizations (acre-feet) organizations (acre-feet) organizations (acre-feet) organizations (acre-feet) organizations (acre-feet) organizations (acre-feet) (acre-feet) organizations (acre-feet)	1 14 21 17 11 10 7	12 14 8 1	1 3 1 6 8 1	2		(D) (D) (D) (D) (D) (D) (D)	1 1 4 6 3 1
Size of organization (sore-feet of water conveyed):	14 17 17 12 11 18	9 2 	 2 1 4 9 3	 1 2 1 1 2		(D) (D) (D) (D) (D) (D) (D) (D)	1 3 6 4 1 3 2

D Data not shown to avoid disclosure of information for individual organizations. NA Not available.

State Table 5.—NUMBER OF IRRIGATION ORGANIZATIONS, TYPE OF SERVICE, NEW CAPITAL INVESTMENT, AND WATER CONVEYED, BY SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUS OF 1959

Item (For delimition and columnition, on text)		Arizona,		_		of California River), and (IV-A_ar		nlorado
(For definitions and explanations, see text)			Size of or	ganization, b	y total water	conveyed		
	0-999 acre-feet	1,000- 9,999 acre-feet	10,000- 99,999 acre-feet	100,000 or more acre-feet	0-999 acre-feet	1,000- 9,999 acre-feet	10,000- 99,999 acre-feet	100,000 or more acre-feet
Number of organizationsorganizations	73	49	23	10	31	29	19	5
TYPE OF SERVICE								
All water directly from surface and ground sourcesorganizations Total water conveyedacre-feet	72 24,983	46 145.937	433,429	2,495,975	31 12.875	27 78,600	15 413,329	1,576,70
Water deliveredacre-feet	19,561 72	119,391 46	348,666 16	1,891,208	10,914 31	67,230 27	339,066 15	1,072,18
To farm and residential users onlyorganizations acre-feet	19,561	119,391	348,066	281,281	10,914	67,230	339,066	121,00
To farm and residential users and other irrigation organizationsorganizations			1	1				
Water to farm and residential usersacre-feet Water to other irrigation organizationsacre-feet			600	649,000 88,300				649,00 88,30
To other irrigation organizations onlyorganizations				2				i
acre-feet			٠	872,627		•••		213,88
Part of water from other organizationsorganizations Total water conveyedacre-feet		3,482	193,553	432,972		3,482	143,433	133,49
From surface and ground water sources		482 3,000	56,488 137,065	104,493 328,479		482 3,000	97,433 46,000	101,49
Water deliveredacre-feet		1,741	162,267	325,245		1,741	120,147	108,26
To farm and residential users onlyorganizations acre-feet		1,741	162,267	108,264		1,741	120,147	108,26
To farm and residential users and other irrigation organizationsorganizations				1				
irrigation organizations				215,191 1,790		:::	:::	::
To other irrigation organizations onlyorganizations	:::	:::			:::			:
acre-feet						···		• •
All of water from other organizationsorganizations Total water conveyedacre-feet	379	8,711	134,696	688,025		7,300	93,537	120,34
Water deliveredacre-feet To farm and residential users onlyorganizations	379	8,311	85,388	598,434		6,900	49,896	80,89
acre-feet	379	8,311	85,388	398,121		6,900	49,896	80,89
To farm and residential users and other irrigation organizationsorganizations				1				
Water to farm and residential usersacre-feet Water to other irrigation organizationsacre-feet		:::		159,154 41,159	:::			::
To other irrigation organizations onlyorganizations		- :::						
No water conveyedorganizations								
WATER FROM OTHER SOURCES								
Organizations reporting 90 water from other sources used								
on land served by the organizationorganizations acres served	17.904	39 57,949	11 66,616	255,784	26 4,460	19 20,952	7 51,642	77,00
acres irrigated	8,337	35,799	55,042	209,120	3,301	15,295	40,290	59,57
Organizations reporting water from other sources used on land served by the organizationorganizations	5	10	12	,	5	10	12	
acres served acres irrigated	1,101	15,091 14,126	125,757 98,155	228,020 224,020	1,101	15,091 14,126	125,757 98,155	228,02
NEW CAPITAL INVESTMENT, 1950-1959	1,021	14,120	90,100	224,020	1,021	14,120	90,133	224,02
Expenditures for additional new works and								
equipment for irrigation and drainage, January 1, 1950-December 31, 1959organizations	21	28	19	8	13	21	16	
dollars	114,900	1,905,083	2,714,247	58,190,383	91,100	1,640,728	2,546,247	17,269,06
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959								
Total entering conveyance systems in basinorganizations scre-feet	73 24,983	49 146,419	23 489,917	2,896,947	31 12,875	79,082	19 510.762	1,678,19
From another drainage basinorganizations acre-feet				299,479				
From Drainage Basin number	72	47	21	200,410				::
From natural sources within basinorganizations acre-feet	24,983	146,419	489,917	2,597,468	31 12,875	28 79,082	18 510,762	1,678,19
Surface waterorganizations	18,253	85,916	15 124,158	1,763,122	25 7,502	17 40,957	12 149,403	843,85
Ground waterorganizations acre-feet	18 6,730	60,503	19 365,759	4	14	1.5	18	1
From other organisations in the basin organisations receiving	1	3	6	834,346	5,373	38,125 2	361,359 4	834,34
acte-feet	379 73	11,711	271,761	720,025		10,300	139,537	152,34
Total leaving conveyance systemsorganizations acre-feet	25,362	158,130	761,678	2,613,096	12,875	89,382	19 650,299	1,528,35
Conveyance loss in basinorganizations acre-feet	72 5,347	45 28,345	22 156,700	735,114	31 1,886	28 13,411	18 140,473	504,36
Conveyed to another drainage basinorganizations acre-feet			7,940		·			·
To drainage basin number	73				31			::
Delivered for use in the basinorganizations acre-feet	20,015	49 129,785	23 597,038	1,877,982	10,989	75,971	509,826	1,023,99
To farm irrigation water usersorganizations	73 19,671	49 124,929	23 596,208	1,746,391	10,912	29 72,761	19 508,996	895,1
To residential water usersorganizations	9	10	2	3	1	5	2	
acre-feet For other useorganizations	269 1	4,514 2	113 2	64,620	2	3,110 1	113 2	64,0
Bcre-feet Delivered to other irrigation organisationsorganisations delivering	75	342	717	66,971	75	100	717	64,8
acre-feet				1,003,876	- :::	:::		302,18
AVERAGE DELIVERY OF IRRIGATION WATER PER ACRE, 1959	1							
Per acre irrigated, as reported by irrigation organization: All organizationsacre-feet	2.1	2.5	3.9	4.0	2.5	2.5	3.7	3.
All organizationsacre-feet Organizations reporting m0 water from other sources used on land served by the organizationorganizations	68	39	11	6	26	19	7	
on land served by the organizationorganizations acre-feet	2.1	2.7	5.1	5.0	2.6	3.0	4.7	3

CALIFORNIA

(93)

IRRIGATION OF AGRICULTURAL LANDS

State Table 1.-NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS,

_				North F	acific Coast	(I-A)			Klamatb R	iver (II-A)
						Rogue River				
	Item (For definitions and explanations, see text)	The State	Total	Pacific Coast direct	Total	Illinois River	Applegate River	South Pacific Coast, total	Total	Klamath River direct and Lower Klamath Lake
				(1)		(4b)	(4c)			(1, 5)
1 2	Total acres irrigated in Census year	7,395,570 6,598,839	3,000 1,906	3,000 1,906	:::	:::	:::	6,654,000 5,855,060	148,000 144,873	24,000 18,450
3	Irrigation organizationsorganizations 1959	1,075 1,506	:::					1,047 1,459	27 28	6 5
5	Service area, 1959: Form area reported served by organizationsacres 1959	5,293,986						4,618,981	121,291	17,887
6	Farm area reported irrigated by organizationsacres 1959	4,184,482						3,540,043	114,377	16,948
7	Water users served, totalwater users 1959	1,152,970						1,134,858	1,720	277
в	Farm irrigation water userswater users 1959	116,037						108,427	1,444	252
9	Residential water userswater users 1959	1,018,384						1,007,884	270	19
10	Other water userswater users 1959	18,549						18,547	6	6
	LAND IRRIGATED BY SOURCE OF WATER, 1959	2 000 000	3,000							
11	Ground water sources	3,992,790		3,000			***	3,874,000	29,000	10,000
12	WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959	3,402,700				• • • •	***	2,780,000	119,000	14,000
13 14	Total entering conveyance systems in basin organizations. acre-feet	1,066 17,321,855						1,041 12,882,010	26 478,093	6 59,179
15 16	From another drainage basinorganizations acre-feet	2 387,033						974,492	2 387,033	:::
17	From drainage basin numberD. B. No							274,492	367,033	
18	From natural sources within basinorganizations	968						942	25	6
19 20 21	acre-feet Surface waterorganizations scre-feet	16,934,822 364 15,276,039						11,907,518 346 10,271,080	91,060 25 55,459	59,179 6 40,044
22	Ground waterorganizations	688						675	4	2
23	8cre-feet	1,658,783				• • • •		1,636,438	35,601	19,135
25	From other organizations in the basinorganizations receiving acre-feet	219 11,546,796						214 3,801,077	:::	:::
26 27	Total leaving conveyance systemsorganizations acre-feet	1,066 17,321,855						1,041	26 478,093	59,179
28 29	Conveyance loss in basinorganizations acre-feet	436 3,412,068				:::		412 2,493,431	25 198,190	2,974
30	Conveyed to another drainage basinorganizations	2						2,422,431	170,170	
31	acre-feet	302,779								
32	To drainage basin numberD. B. No			• • • •	•••		•••	1.022		
34	Delivered for use in the basinorganizations acre-feet	1,046 13,607,008	:::	:::	:::	:::	:::	10,388,579	26 279,903	56,205
35 36	To farm irrigation water usersorganizations acre-feet	1,039 12,350,452	:::		:::		:::	1,016 9,171,475	26 276,962	53,899
37 38	To residential water usersorganizations acre-feet	828,036	:::	:::	:::	:::		788,587	1,627	992
39 40	For other useorganizations acre-feet	428,520	:::	:::		:::		82 428,517	1 1,314	1,314
41 42	Delivered to other impation organizations	96 11,546,796	:::	:::		:::	···	92 3,801,077	:::	:::
43	Average delivery of irrigation water per acre irrigated as reported by organizationsacre-feet	3.0						2.6	2.4	3.2
44	NEW CAPITAL INVESTMENT, 1950-1959 Expenditures for additional new works and equipment for irrigation and dreinance, realizations Jan. 1, 1950-Dec. 31, 1959	487 495,970,922						474 471,031,972	17 50,694,304	1 30,000

1382,419 acre-fect from D. B. No. II-A-6, Oregon; 4,614 acre-fect from D. B. No. II-A-7, Oregon.
**Asster was transferred to the basin and released to natural stream channel in excess of the quantity of surface water withdrawn by irrigation organizations. The net effect was to increase the available surface water supply in the basin or State.

BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950

			lley (II-B)	ng Central Va	iver excluding	Santa Maria E	amath River to	К		d	I-A) Continue	amath River (1	КІ
			_	lsco Bay	San Franci								
Salinas River	jaro Iver	P	Santa Clara Valley	Alameda Creek	San Francisco Bay direct and Suisum Bay	Total	Russian River	Pacific Coast direct	Total	Lost River	Shasta River	Scott River	Trinity River
(5)	4)	-	(3d)	(3e)	(3a,b)		(2)	(1)		(6)	(4)	(3)	(2)
187,000 139,878	77,000 66,557		72,000 73,769	23,000 18,411	39,000 24,847	134,000 117,027	31,000 16,194	64,000 46,957	493,000 386,613	55,000 63,280	46,000 44,337	19,000 14,947	4,000 3,859
1	7		7 15	2	7 5	14 22	3 2	7 7	39 54	3 1	9 10	6 10	4 2
6,80	920		6,750		11,223	17,973	5,503	3,148	34,349	63,198	25,125	9,741	5,340
6,80	873		6,725		8,722	15,447	4,558	2,963	30,646	63,198	20,866	8,231	5,134
2,26	26		93,996		1,372	95,368	90	12,410	110,163	783	511	88	61
18	26		384		525	909	88	122	1,332	783	260	88	61
2,08		1	83,936 9,676		772	84,708 9,751	2	10,583	97,373 11,458		251		
180,00	68,000		66,000	19,000	22,000	107,000	17,000	43,000	415,000	7,000	8,000	4,000	
7,00	9,000		6,000	4,000	17,000	27,000	14,000	21,000	78,000	48,000	38,000	15,000	4,000
35,91	7 7,221		7 66,345		7 85,055	14 151,400	.3 14,946	7 151,753	39 223,169	2 304,430	78,776	6 24,853	3 10,855
::					68,669	68,669	138,069		68,669	387,033		:::	
					II-C-1		II-B-1			(1)			
35,91	7 7,221		7 66,345		16,386	82,731	2-123,123	7 151,753	36 154,500	2 _{-82,603}	9 78,776	6 24,853	3 10,855
4,50	5,850		22,366	:::	15,450	37,816	²-123,123	145,336	16 70,379	2-97,179	76,886	24,853	3 10,855
31,41	1,371		43,979	:	936	44,915	:::	6,417	84,121	14,576	1,890	:::	:::
15,55	:::		1 27		238	5 265	4,400	:::	20,220			:::	:::
35,91	7,221	1	66,345		85,055	151,400	14,946	7 151,753	223,169	304,430	78 , 776	24,853	10,855
2,15	40		2 55	:::	4,490	4,545	4,099	1,137	11,971	175,962	16,207	2,509	3 538
::			:::	:::	:::	:::		138,069	:::	:::			
	7		7		7	14	2	II-B-2 6			9		
33,76	7,181		66,290		80,565	146,855	10,847	12,547	211,198	128,468	62,569	22,344	10,317 3
32,13	1,631		13,733		22,293	36,026	10,835	6,791 2	87,414	128,468	61,934	22,344	10,317
98 65	1 5,550		40,247 2 12,310		956 1 57,316	41,203 3 69,626	12	3,876 1 1,880	46,074 6 77,710		635		
15,55			1 27		1 238	2 265	1 4,400		20,220	:::		:::	
4.	1.9		2.0		2.6	2.3	2.4	4.0	3.0	2.0	3.0	2.7	2.0
54,70	3 7,648		3 10,369,302	:::	1,131,403	7 11,500,705	12,000	18,400	14 11,593,453	2 3,910,707	7 194,200	45,800	3 46,513,597

State Table 1.-NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS.

			Sacramento-San Joaquin Delta area (II-C)							mento River (II-D)
		Central								Sacramer diz	nto River
	Item (For definitions and explanations, see text)	Valley, total	Total	Delta and west side lands	Morrison Creek area	Consummes River	Mokelumme River area	Calaveras River area	Total	Total	Below Colusa
ı				(1)	(2)	(3)	(4)	(5)			(la)
1 2	Total acres irrigated in Census year1959	5,465,000 4,668,895	736,000 547,330	402,000 345,906	38,000 18,449	45,000 22,807	93,000 75,429	158,000 84,739	1,194,000 959,353	597,000 461,427	359,000 273,874
3 4	Irrigation organizationsorganizations 1959 1949	354 477	43 40	32 30	• • • • • • • • • • • • • • • • • • • •	4 4	4 2	5 6	96 99	38 43	17 18
5	Service area, 1959; Farm area reported served by organizationsacres 1959	3,743,340	289,166	165,875		3,380	12,837	107,074	752,724	416,087	179,834
6	Farm area reported irrigated by organizationsacres 1959	3,090,342	261,011	153,056		2,250	12,725	92,980	526,084	300,385	141,037
7	Water users served, totalwater users 1959	110,589	5,984	1,516		8	1,380	3,080	38,036	10,048	6,743
8	Farm irrigation water userswater users 1959	78,043	4,913	1,413		8	412	3,080	11,539	6,176	3,441
9	Residential water userswater users 1959	32,329	1,067	101		•••	966		26,295	3,866	3,300
10	Other water userswater users 1959	217	4	2			2		202	6	2
	LAND IRRIGATED BY SOURCE OF WATER, 1959								1000 000	000 000	320 000
11	Ground water sourcesacres	2,985,000	281,000	55,000	31,000	35,000	66,000	94,000	479,000	222,000	138,000
12	Surface water sourcesacres	2,480,000	455,000	347,000	7,000	10,000	27,000	64,000	715,000	375,000	221,000
13	WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959 Total entering conveyance systems in										
14	basinorganizations acre-feet	350 10,756,668	2,396,450	32 1,901,668	:::	35,631	106,531	393,820	93 3,466,508	2,103,634	888,015
15 16	From another drainage basinorganizations acre-feet	8,000	2 345,200	2 41,200	:::		:::	2 345,200	3 22,631	286,009	5 407,949
17	From drainage basin numberD. B. No			(1)				II-E-2			(2)
18 19	From natural sources within basinorganizations acre-feet	304 10,748,668	39 2,051,250	30 1,860,468	:::	35,631	3 106,531	5 48,620	88 3,443,877	37 1,817,625	16 480,066
20 21	Surface waterorganizations acre-feet	237 9,921,568	2,007,510	30 1,851,848	:::	35,631	3 106,531	13,500	3,407,240	1,789,416	480,006
22	Ground waterorganizations scre-feet	95 827,100	43,740	8,620	:		***	35,120	36,637	28,209	60
24 25	From other organizations in the basin organizations receiving organizations receiving orrespective.	89 3,199,016	41,033	38,864			2,169		19 789,954	5 45,547	2 36,161
26 27	Total leaving conveyance systemsorganizations acre-feet	350 10,756,668	42 2,396,450	32		3 35,631	106,531	5 393,820	93 3,466,508	37 2,103,634	17 888,015
28 29	Conveyance loss in basinorganizations scre-feet	231 2,191,778	26 195,300	16 70,416		12,500	16,178	5 96,206	73 758,586	32 410,110	14 153,627
30 31	Conveyed to another drainage basinorganizations acre-feet	68,669	1,419,481	1,409,850	:::	9,631	29,200	12,000		173,550	107,900
32	To drainage basin number	00,007	-,,	(9)		II-D-2	II-C-1	II-C-1			II-D-2
33 34	Delivered for use in the basinorganizations acre-feet	343 8,496,221	38 781,669	29 421,402	:::	2 13,500	61,153	5 285,614	89 2,707,922	37 1,519,974	17 626,488
35 36	To farm irrigation water usersorganizations acre-fect	341 8,165,743	37 752,000	28 393,236	:::	2 13,500	59,650	5 285,614	89 2,579,250	37 1,510,382	17 619,275
37 38	To residential water usersorganizations acre-feet	38 108,670	29,069	28,152	:::	:::	1 917	:::	17 73,648	5 5,216	2,909
39 40	For other useorganizations scre-feet	23,808	3 600	14	:::	:::	2 586	:::	12 55,024	4,376	4,304
41 42	Delivered to other irrigation organizationsorganizations delivering acre-feet	27 3,199,016	2 41,033	38,864			1 2,169	:::	11 789,954	3 45,547	2 36,161
43	Average delivery of irrigation water per acre irrigated as reported by organizationsacre-feet	2.6	2.9	2.6		6.0	4.7	3.1	4.9	5.0	4.4
44	NEW CAPITAL INVESTMENT, 1950-1959 Expenditures for additional new works and equipment for irrigation and drainage, Jan. 1, 1950-Dec. 31, 1959organizations	199	31	24		2	4	2	49	21	10
45	dollars	277,359,158	18,551,936	7,315,379	one feet fr	9,751,700	784,857	700,000	60,331,063	6,370,334	3,335,321

129,200 acre-feet from D. B. No. II-0-4, 12,000 acre-feet from D. B. No. II-0-52, 212,940 acre-feet from D. B. No. II-0-53, 32,700 acre-feet from D. B. No. II-0-53, 253,309 acre-feet from D. B. No. II-0-53, 253,309 acre-feet from D. B. No. II-0-53, 253,309 acre-feet from D. B. No. II-0-54, 26,200 acre-feet from D. B. No. II-0-53, 253,309 acre-feet from D. B. No. II-0-54, 26,200 acre-feet from D. B. No. II-0-54, 26,200 acre-feet from D. B. No. II-0-54, 26,200 acre-feet from D. B. No. II-0-54, 26,200 acre-feet from D. B. No. II-0-54, 26,200 acre-feet from D. B. No. II-0-10, 26,200 acre-feet from D. B. No.

BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950-Continued

					i	II-D)—Continue	amento River (Sacr	-			
						River	Feather				to River	Sacramen
er	Pit Rive	Cow Creek	Cache Creek and Stoney Creek	Butte Creek	Yuba River	Bear River	Feather River direct	Total	Putah Creek	American River	Above Red Bluff	Colusa to Red Bluff
	(9)	(8)	(4, 7)	(6)	(5e)	(5ъ)	(5a)		(3)	(2)	(lc)	(1b)
	91,0 95,7	8,000 7,173	122,000 76,882	89,000 83,433	17,000 10,732	21,000 14,204	178,000 152,962	216,000 177,898	51,000 37,143	20,000 19,663	28,000 23,310	210,000 164,243
9		10 9	4 4	5 9	7 8	3 2	19 21	23 25	5 2	12 12	7 8	16 19
,490	34,4	4,445	80,430	72,190	12,200	11,554	84,283	108,037	22,359	14,686	29,100	207,153
, 982	32,9	3,855	35,190	49,472	11,700	9,761	62,197	83,658	8,159	12,383	26,235	133,113
97		70	868	4,491	3,357	1,185	4,071	8,613	60	13,789	1,249	2,056
97		68	868	361	317	715	1,725	2,757	55	1,157	764	1,971
		2		4,130	3,024	470	2,337	5,831		12,466	481	85
					16		9	25	5	166	4	•••
,000 :	9,0	1,000	74,000	41,000	5,000	11,000	72,000	88,000	37,000	7,000	5,000	79,000
,000	82,0	7,000	48,000	48,000	12,000	10,000	106,000	128,000	14,000	13,000	23,000	131,000
,806	80,8	9 24,869	233,898	422,551	7 555,356	321,384	19 942,022	1,383,892	33 ,2 50	106,875	175,656	16 1,161,903
:::			1 1,300	491,120		3 30 8, 611	143,097	16,838	2 33,100	2 117,531		
1			II-D-1b	(7)		(6)	(5)		(4)	(3)		
,806 I	80,8	9 24,869	3 232,598	8-68,569	6 555,356	12,773	16 798,925	20 1,367,054	2 150	⁸ -10,656	6 175,656	16 1,161,903
,806	80,8	9 24,869	3 232,598	8-68,569	555 , 356	3 12,773	16 796,528	20 1,364,657	2 150	8 8-16,687	6 175,656	13 1,133,754
:::		:::	:::	:::	:::	:::	2,397	2,397	:::	6,031		28,149
2		:::	:::	:::	3 132,302	:::	563,3 2 3	9 695,625	10,477	38,305	:::	9,386
,806	80,8	9 24,869	233,898	422,551	7 555,356	3 321,384	19 942,022	23 1,383,892	33 ,2 50	11 106,875	175,656	1,161,903
,082	3,0	9 3,621	70,528	102,342	6 40,736	18,141	16 88,896	19 147,773	10,240	10,890	40,795	215,688
:::		:::	28,100	:::	5 434,870	2 253,309	459,470	712,779	:::	8,838	:::	187,590
3			II-D-3		(12)	II-D-la	(11)			II-D-5b		(10)
,724	77,7	9 21,248	135,270	320,209	79 , 750	3 49,934	17 393,656	21 523,340	23,010	9 87,147	134,861	16 758,625
,724	77,	9 20,518	135,270	316,061	58 ,7 50	3 46,593	17 345,518	21 450,861	22,310	46,124	132,642	16 758,465
3		1 730	:::	4,148	17,500	3,341	15,501	36,342	:::	27,212	2,147	1 160
::: 2			:::	:::	3,500	:::	32,637	36,137	700	13,811	72	
::: 4	:	:::	:::	:::	132,302	:::	563,323	695 , 625	10,477	38,305	:::	9,386
2.4	2	5.3	3.8	6.4	5.0	4.8	5.6	5.4	2.7	3.7	5.1	5.7
,000	3,0	5 196,745	132,700	3 857,448	365,000	522,000	11 885,300	13 1,772,300	45,448,351	6 5,550,185	2,243,630	9 791,383

IRRIGATION OF AGRICULTURAL LANDS

State Table 1.-NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS.

_					San Jos	quin River (1	I-E)			
				San Joaquin R	iver direct					
	Item (For definitions and explanations, see text)	Total	Total	Below Newman	Newman to Mendota	Above Mendota	Stanislaus River	Tuolumme River	Los Bancs Creek	Merced River
				- (la)	(1b)	(le)	(2)	(3)	(4)	(5)
1	Total acres irrigated in Census year	1,197,000 1,198,468	501,000 534,040	129,000 106,269	254,000 331,611	118,000 96,160	75,000 91,675	205,000 189,216	63,000 54,179	72,000 84,010
3 4	Irrigation organizationsorganizations 1959	60 55	38 33	21 13	11 7	10 14	8 8	6	6 3	6 5
5	Service area, 1959: Farm area reported served by organizations	1,080,380	435,431	135,942	211,394	88,095	64,740	208,201	59,398	88,855
6	Farm area reported irrigated by organizationsacres 1959	910,623	413,987	127,682	201,673	84,632	35,755	184,633	54,434	77,549
7	Water users served, totalwater users 1959	32,278	13,657	2,131	1,354	10,172	2,576	9,481	660	3,130
8	Farm irrigation water userswater users 1959	29,150	13,593	2,068	1,353	10,172	1,595	7,400	659	3,130
9	Residential water userswater users 1959	3,123	61	61			981	2,081		
10	Other water userswater users 1959	5	3	2	1				1	
11	LAND IRRIGATED BY SCURCE DF WATER, 1959 Ground water sourcea	528,000	238,000	38,000	133,000	40.000	01.000	47,000	20.000	22,000
12	Ground water sourcea	669,000	238,000	91,000	111,000	89,000 29,000	21,000 54,000	158,000	20,000 43,000	22,000 50,000
12	WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959	669,000	263,000	91,000	143,000	29,000	34,000	150,000	43,000	50,000
13 14	Total entering conveyance systems in basin	60 4,832,90B	38 3,650,049	21 1,579,644	986,775	10 1,276,701	8 653,375	6 989,161	6 1,107,798	682,436
15 16	From another drainage basinorganizations acre-feet	1,478,261	6 2,406,316	1,435,364	883 , 227	280,796	79,730	2 138,034	1,083,836	75,245
17	From drainage basin numberD. B. No			(1)	(2)	(3)	II-E-3	II-E-2	II-E-la	II-E-3
18 19	From natural sources within basinorganizations acre-feet	36 3,354,647	18 1,243,733	8 144,280	5 103,548	995 , 905	7 573,645	6 851,127	3 23,962	607,191
20 21	Surface waterorganizations acre-feet	25 2,847,151	1,168,971	119,812	3 53,563	995,5 96	7 51 3, 245	700,535	7,200	485,920
22	Ground waterorganizations acre-feet	507,496	74,762	24,468	49,985	3 309	60,400	150,592	16,762	12 1,27 1
24 25	From other organizations in the basin	30 1,353,857	24 1,030,794	14 203,498	8 655,778	3 171,518	2 3,117		3 229,496	
26 27	Total leaving conveyance systemsorganizations acre-feet	4,832,908	38 3,650,049	21 1,579,644	986,775	10 1,276,701	8 653,375	989,161	6 1,107,798	682, 43 6
28 29 30	Conveyance loss in basinorganizations acre-feet	745,739	20 314,668	91,132	7 157,168	66,368	41,318	189,307	71,268	40,829
31	Conveyed to another drainage basinorganizations acre-feet	1,206,751	2,104,223	1,083,836	143,901	1,069,557	483,234	254,158	828,872	1 356,950
32	To drainage basin number			II-E-4	(9)	(10)	(11)	(12)	II-E-lb	II-E-6
33 34	Delivered for use in the basinorganizations acre-feet	59 2,880,418	37 1,231,158	20 404,676	11 685,706	7 140,776	8 128,823	6 545,696	5 207,658	6 284,657
35 36	To farm irrigation water usersorganizations acre-feet	2,819,536	37 1,211,396	402, 7 94	667,826	140,776	127,830	544,269	189,658	284,657
37 38	To residential water usersorganizations acre-feet	2,422	1 2	1 2		:::	993	1,427		
40	For other useorganizations acre-feet Velivered to other ungation	58,460	19,760	1,880	17,880				18,000	
42	organizationsorganizations delivering acre-feet	1,353,857	1,030,794	2 203,498	655,778	2 171,518	3,117		229,496	:::
43	Average delivery of irrigation water per acre irrigated as reported by organizationsacre-feet	3.1	2.9	3.2	3.3	1.7	3.6	2.9	3.5	3.7
44	NEW CAPITAL INVESTMENT, 1950-1959 Expenditures for additional new works and equipment for irrigation and drainage, Jan. 1, 1950-Dec. 31, 1959organizations dollars	33 95,320,749	23 24,473,088	12 3,468,364	10 9,497,545	5 11,507,179	5 48,111,174	5,798,816	2 2,707,557	3 1,099,000

^{1,336,181} acre-feet from D. B. No. II-C-1, 99,183 acre-feet from D. B. No. II-F-3.

254,395 acre-feet from D. B. No. II-F-1c, 288,872 acre-feet from D. B. No. II-F-4.

1336,716 acre-feet from D. B. No. II-F-1c, 123,680 acre-feet from D. B. No. II-F-3.

266,034 acre-feet from D. B. No. II-F-1c, 7,1735 acre-feet from D. B. No. II-F-3.

282,239 acre-feet from D. B. No. II-F-1c, 5,185 acre-feet from D. B. No. II-F-1c, 147,685 acre-feet from D. B. No. II-F-1c, 5,185 acre-feet from D. B. No. II-F-1c, 147,685 acre-feet from D. B. No. II-F-1c, 147,765,475 acre-feet from D. B. No. II-F-1c, 147,685 acre-feet from D. B. No. II-F-1c, 147,685 acre-feet from D. B. No. II-F-1c, 147,765,475 acre-feet from D. B. No. II-F-1c, 147,685 acre-feet from D. B. No. II-F-1c, 147,685 acre-feet from D. B. No. II-F-1c, 147,685 acre-feet from D. B. No. II-F-1c, 147,685 acre-feet from D. B. No. II-F-1c, 147,765,475 acre-feet from D. B. No. II-F-1c, 147,685 acre-feet from D. B. No. II-F-1c, 147,685 acre-feet from D. B. No. III-F-1c, 147,685

BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950-Continued

San Joaqu (II-E)—0	in River	S	an Josquin Va	illey above S	San Joaquin F	liver (II-F)			Santa Ma	aria River and	d basins south	h (II-G)		
Bear Creek	Chowchilla and Fresno Rivers	Total	Fresno Slough and West side area	Kings River	Kaweah and Tule Rivers	Deer Creek- White River area	Kern River and Buena Vista Lake	Total	Pacific Coast direct	Santa Maria River and Santa Ynez River	Santa Clara River	Calleguas Creek	Los Angeles River	
(6)	(7)		(1, 2)	(3)	(4)	(5)	(6)		(1)	(2, 3)	(4)	(5)	(6)	-
134,000 107,964	147,000 137,384	2,338,000 1,963,744	700,000 463,066	395,000 444,258	589,000 512,170	123,000 123,719	531,000 420,531	548,000 654,679	56,000 55,387	52,000 45,219	57,000 66,631	65,000 49,914	18,000 44,029	
3 2	11	16b 245	26 42	25 27	80 123	9	35 54	629 951	54 63	4	42 49	20 27	. 8 21	
118,255	105,500	1,621,070	604,328	330,844	374,995	124,868	186,035	720,001	98,510	4,370	24,923	12,173	16,240	
86,465	57,800	1,392,624	488,617	310,986	350,974	115,267	126,780	304,678	25,934	4,370	22,778	9,020	16,210	1
2,148	626	34,291	5,429	19,908	6,163	1,453	1,338	912,386	77,888	26	1,876	1,512	574,783	
2,147	626	32,441 1,844	5,217	19,907	5,290 872	877 576	1,150	27,608 877,912	5,439 70,985	26	630 1,233	539 973	1,646 573,137	
1		1,044	210	1	1		2	6,866	1,464		1,233	9/3	2/3,13/	1
/m 000	113,000	3 (00, 000	53.0.000	200 000	101 000	m a	125,000	115 000	45.000	E1 000	4, 000	(0.000	34.000	
67,000 67,000	34,000	1,697,000 641,000	510,000	276,000	404,000	72,000	435,000 96,000	445,000 103,000	45,000 11,000	1,000	46,000	5,000	18,000	1
						,		,						
3 402,450	168,325	165 2,760,445	26 606,116	24 1,599,732	80 1,095,951	9 364,468	35 427,016	628 1,492,749	54 212,560	10,925	42 119,956	20 19,598	525,034	1
356,950	158,836	861,551	137,789	795,497	868,273	343,037	49,793	579,459	168,130	:::	:::	:::	406,747	1:
II-E-5	(4)	•••	(5)	II-E-le	II-F-3	II-F-4	II-F-5	• • • • • • • • • • • • • • • • • • • •	(6)		• • • • • • • • • • • • • • • • • • • •		(7)	1'
3 45,500	9,489	145 1,898,894	19 468,327	804,235	68 227,678	21,431	32 377,223	578 913,290	34 44,430	3 10,925	40 119,956	20 19,598	118,287	
8 _{-32,400}	3,680	96 1,659,667	17 402,915	20 789,060	44 161,963	1 404	14 305,325	68 223,674	8 22,975	:::	9 46,826	970	:::	21
77 , 900	5,809	239,227	65,412	5 15,175	29 65,715	21,027	19 71,898	553 689,616	29 21,455	3 10,925	37 73,130	19 18,628	118,287	2:
1,250	89,200	37 1,014,172	8 113,227	65,210	19 486,175	288,536	61,024	118 581,841	23 118,442		5 4,882	:::	87,523	
3 402,450	168,325	165 2,760,445	26 606,116	24 1,599,732	1,095,951	9 364,468	35 427,016	628 1,492,749	54 212,560	10,925	42 119,956	20 19,598	525,034	26
29,577	58 , 772	106 492,153	22 174,907	21 126,484	49 101,610	3 15,497	19 73,655	157 91,492	8,448	2 31.5	7 2,880	5 660	34,552	
		142,080		1,082,088	2 343,037	49,793			106,554	:::	1,110	:::	28,239	
				(13)	II-F-5	II-F-6			(14)		11-0-1		II-G-1	1
3 372,873	3 109,553	164 2,126,212	25 431,209	23 391,160	79 651,304	8 299,178	35 353,361	619 1,401,257	46 97,558	3 10,610	42 115,966	20 18,938	462,243	3:
3 352,173	3 109,553	163 2,014,957	25 414,113	22 390,874	79 571,000	8 297,727	34 341,243	615 641,356	45 40,759	3 10,610	42 68,778	20 16,934	6 31,596	35
		13 3,531	1 435		5 1,626	3 1,451	4 19	172 632,216	27 43,930		15 7,586	9 2,004	430,647	3'
20,700	:::	5 107,724	1 16,661	1 286	2 78,678	:::	12,099	52 127,685	7 12,869	:::	5 39,602	:::		39 40
1,250	89,200	1,014,172	113,227	3 65,210	9 486,175	1 288,536	2 61,024	59 581,841	14 118,442		4,882		1 87,523	
4.1	1.9	1.4	0.8	1.3	1.6	2.6	2.7	2.1	1.6	2.4	3.0	1.9	1.9	4:
2 803,677	12,327,437	94 103,155,410	17 2,257,930	7 4,391,779	46 43,011,282	7 39,374,245	23 14,120,174	245 131,385,057	26 69,805,165	11,238,200	24 27,492,313	12 435,159	6,000	44

IRRIGATION OF AGRICULTURAL LANDS

State Table 1.-NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS,

=			Santa Maria F	draw and book		Northwest Great				
			Salita Malia P	Iver and basi	ns south (11-	-continued				St Great (III-A)
	Item (For definitions and explanations, see text)	San Gebriel River	Santa Ana River	San Jacinto Basin	San Luis Rey River	San Dieguito River	San Diego and Sweetwater Rivers	Great Basin, total	Total	Cowhead and Warner Lakes area
		(7)	(8)	(9)	(10)	(11)	(12, 13)			(3)
1 2	Total acres irrigated in Gensus year	39,000 103,810	181,000 219,750	51,000 38,365	9,000 12,495	8,000 9,430	12,000 9,649	191,000 210,500	32,000 38,124	2,000 819
3	Irrigation organizationsorganizations 1959	120 249	343 495	33 40	18 11	8 3	10 6	19 26	1 2	
5	Service area, 1959: Farm area reported served by organizationsacres 1959	35,866	176,625	253,084	82,757	11,138	4,315	65,704	(D)	•
6	Farm area reported irrigated by organizationsacres 1959	25,781	136,565	35,298	22,519	4,758	1,445	61,116	(D)	
7	Water users served, totalwater users 1959	24,951	80,006	6,870	2,520	3,032	138,922	5,877	(D)	
8	Farm irrigation water userswater users 1959	3,698	11,747	1,652	1,054	787	390	526	(D)	
9	Residential water userswater users 1959	21,167	68,124	5,026	1,441	2,245	133,581	5,350		
10	Other water userswater users 1959	86	135	192	25		4,951	1		
	LAND IRRIGATED BY SOURCE OF WATER, 1959									
11	Ground water sourcesacres	33,000	141,000	31,000	7,000	5,000	8,000	93,000	6,000	
12	Surface water sources	6,000	40,000	20,000	2,000	3,000	4,000	98,000	26,000	2,000
13	Total entering conveyance systems in basin	120 221,843	343 583,429	33 3 1 2,976	18 %,818	8 63,348	9 101 , 377	17 536,081	1 (D)	
15 16	From another drainage basinorganizations acre-feet	138,174	3 146,831	2 279,708	2 66,495	3 56,529	91,960			:::
17	From drainage basin numberD. B. No	II-G-8	(1)	(2)	II-G-1	(3)	(4)			
18 19	From natural sources within basinorganizations acre-feet	112 83,669	321 436,598	28 33,268	10 30,323	6,8 1 9	6 9,4 17	16 536,081	(D)	
20 21	Surface waterorganizations acre-feet	13 19,290	27 87,844	2 8,815	5 22,198	1 6,041	3 8,715	11 528,315	1 (D)	
22 23	Ground waterorganizations acre-feet	104 64,379	314 348,754	28 24,453	8 ,12 5	3 778	702	7,766	:::	:::
24 25	From other organizations in the basinorganizations receiving acre-feet	14 26,968	119,785	7 156,004	9 13,44 1	4 4,355	7 50,441	1 4.984		
26 27	Total leaving conveyance systemsorganizations acre-feet	120 221,843	343 583,429	33 312,976	18	63,348	9	17 536,081	1 (D)	
28 29	Conveyance loss in basinorganizations	25 5,641	74 25,528	2,757	13 3,423	5 510	6,778	10 37,028	1	
30 31	Conveyed to another drainage basinorganizations acre-feet	121,470	141,174	246,366	71,012	54,365	1	37,028 3 314,051	(D)	
32	To drainage basin numberD. B. No	(7)	(8)	(9)	(10)	(11)	1I-G-1	314,031		
33 34	Delivered for use in the basinorganizations acre-feet	116 94,732	339 416,727	30 63,853	16 22,383	8,473	89,774	16 185,002	1 (D)	
35 36	To farm irrigation water usersorganizations acre-feet	116 51,197	337 331,520	30 58,829	16 20,986	7,320	2,827	16 180,055	1 (D)	
37 38	To residential water usersorganizations acre-feet	32 15,013	69 54,493	6 3,961	12 832	1,153	72,597	4,944		
39 40	For other useorganizations acre-feet	15 28,522	18 30,714	1,063	2 565		3 14,350	1 3		:::
41 42	Delivered to other impation organizations delivering acre-feet	7 26,968	31 119,785	3 156,004	4 13,441	4,355	3	1		
43	Average delivery of irrigation water per acre irrigated as reported by organizationsacre-feet	2.0	2.4	1.7	0.9	4,355 1.5	50,441	4,984	(D)	•
44	NEW CAPITAL INVESTMENT, 1950-1959 Expenditures for additional new works and equipment for irrigation and drainage, Jan. 1, 1950-Dec. 31, 1959organizations dollars	29 1,861,786	129 4,124,512	8,832,502	4,651,971	6 2,893,149	2,0	10 386,937	1 (D)	:::

Data not shown to avoid disclosure of information for individual organizations.

23,000 acre-feet from D. B. No. II-0-8, 276,708 acre-feet from D. B. No. II-0-1, 25,666 acre-feet from D. B. No. III-0-1, 25,666 acre-feet from D. B. No. III-0-1, 25,666 acre-feet from D. B. No. III-0-1, 276,708 acre-feet from D. B. No. III-0-1, 276,708 acre-feet from D. B. No. III-0-1, 276,708 acre-feet from D. B. No. III-0-3, 276,708 acre-feet from D. B. No. III-0-3, 276,708 acre-feet from D. B. No. III-0-3, 276,078 acre-feet from D. B. No. III-0-3, 276,078 acre-feet from D. B. No. III-0-3, 276,078 acre-feet from D. B. No. III-0-3, 276,078 acre-feet from D. B. No. III-0-3, 276,078 acre-feet from D. B. No. III-0-8, 276,708 acre-feet from D. B. No. III-0-8, 276,708 acre-feet from D. B. No. III-0-8, 276,708 acre-feet from D. B. No. III-0-1, 27,478 acre-feet for D. B. No. III-0-1, 27,478 acre-fee

BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950-Continued

Northwest Great Basin (III-A)—Con.				Central Grea	t Basin (III-	0)			Gulf of Cal below Lees	ifornia: Color Ferry, Arizon	ado River a (IV-B)	I	
Surprise Valley and Madeline Plains	Central desert area	Totel	Honey Lake	Truckee River	Carson and Walker Rivers	Mono Lake- Owens Valley area	Dixie Valley- Fish Lake area	Southwest desert	Antelope Valley and Mojave River	Total	Colorado River direct	Salton Sea area	
(4)	(5)		(1)	(2b)	(3, 4)	(5)	(6)	(8)	(9, 10)		(1)	(2)	
30,000 37,305		159,000 172,376	36,000 34,213	1,565	14,000 45,083	33,000 18,036		10,000 7,848	66,000 65,631	548,000 531,373	84,000 62,264	464,000 469,109	
1 2	:::	18 24	1	2	5 6	3 7			7 7	13 23	6	8 20	
(D)		(D)	(D)		24,515	(D)			3,529	609,301	89,985	519,316	
(D)		(D)	(D)		22,515	(D)			1,912	583,323	85,596	497,727	
(D)		(D)	(D)		49	(D)			5,218	12,234	497	11,737	
(D)		(D)	(D)	• • • • • • • • • • • • • • • • • • • •	49	(D)			135	7,084	482	6,602	
		(D)				(D)			5,082	5,150	15	5,135	1
6,000 24,000		87,000 72,000	25,000		1,000	2,000	•••	10,000	3,000	23,000 525,000	3,000 81,000	20,000 444,000	
1 (1)		16 (D)	1 (D)	1 (D)	4 8D,851	3 (D)	:::	2 579,459	7 312,892	13 4,767,931	6 4,482,623	8 3,500,149	1
(D)		1			·			2	1	1		2	1
		(D)						579,459	302,751 III-C-8	276,708		3,491,549	1
1 (D)	:::	15 (D)	1 (D)	1 (D)	8D,851	2 (D)			7 10,141	12	4,482,623	8,600	1
1 (D)	:::	10 (D)	(D)	1 (D)	80,851	2 (D)			2,475	4,476,644	4,473,333	3,311	2
		8 (D)	:::			1 (D)			7 7,666	14,579	1 9,290	5,289	2
:::		1 (D)	:::			1 (D)		:::		7,740,735	7,378,795	1 361,940	2 2
1 (D)	:::	16 (D)	1 (D)	1 (D)	80,851	3 (D)		579,459	7 312,892	13 4,767,931	6 4,482,623	8 3,50D,149	
(D)	:::	9 (D)	(D)		4 9,153	(D)		:::	2 673	881,609	3 255,671	625,938	5
:::		(D)		1 (D)	3,300	(D)		2 579,459	302,751	852,895	3,791,D28	276,708	3
				II-D-5a	III-C-3b	III-C-8		(12)	11-0-6		(13)	II-G-9	- 1
1 (D)		15 (D)	1 (D)	:::	68,398	3 (D)			7 9,468	10 3,D33,427	2 435,924	8 2,597,503	3
1 (D)		15 (D)	(D)	:::	68,398	3 (D)			7 5,621	10 2,998,922	435,424	8 2,563,498	3
:::	:::	8 (D)	:::	:::		(D)			7 3,844	7 34,505	1 500	6 34,005	3
:::	:::	1 (D)	:::	:::		:::			1 3		:	:::	3
:::	:::	(D)		:::		1 (D)		:::	:::	7,740,735	7,378,795	1 361,94D	4
(D)		(D)	(D)		3.0	(D)			2.9	5.1	5.1	5.2	4
1 (D)	:::	(D)	:::	(D)	5 110,500	1 (D)	:	:::	2 251,872	6 24,552,013	2 1,814,113	22,737,900	4:

State Table 2.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950

				1	ĭ	<u> </u>
Item (For definitions and explanations, see text)	California, total	Klamath River to Santa Maria River excluding Central Valley	San Joaquin River	San Joaquin Valley above San Joaquin River	Santa Maria River and basins south	Sacramento- San Joaquin Delta area, and Sacrament River
		(II-B)	(II-E)	(II-F)	(11-G)	(II-C and II-I
Irrigation organizations, total numberorganizations 1959	1,075 1,506	39 54	60 55	166 245	629 951	
Area irrigated as reported by organizationsacres 1959 1949	4,184,482 3,135,281	30,646 19,869	910,623 844,934	1,392,624 745,943	304,678 349,168	78 55
Farm water users served directlywater users 1959	116,037	1,332	29,150	32,441	27,608	1
Total water conveyedacre-feet 1959	28,868,651	243,389	6,186,765	3,774,617	2,074,590	6,67
TYPE OF ORGANIZATION						
Unincorporatedorganizations 1959 1949 Farm area irrigated directlyacres 1959 Farm water users served	384 709 75,038	15 26 1,263	8 20 1,190	53 117 12,351	259 467 17,142	2
directlywater users 1959 Total water conveyedacre-feet 1959	2,074 359,229	75 9 , 853	20 10,235	294 87 , 070	1,417 63,528	12
Incorporatedorganizations 1959 1949 Farm area irrigated directlyacres 1959	432 561 1,035,041	11 9 9,595	10 11 99,559	73 94 53 6,1 67	293 402 1%,911	16
Farm water users served directlywater users 1959 Total water conveyedacre-feet 1959	22,005 3,129,996	404 65,114	526 420,346	2,926 827,986	15,634 635,125	78
Districtorganizations 1959	173 114	2 5	36 17	31 20	40 23	
Farm area irrigated directlyacres 1959 Farm water users served directlywater users 1959	2,836,277 82,983	(D)	(D)	775,557	52,374 7,022	53 1
Total water conveyedacre-feet 1959 U.S. Bureau of Reclamation; projects and stor-	15,108,773	(D)	(D)	1,795,317	615,556	3,80
age systems operated by bureauorganizations 1959 1949 Farm area irrigated directlyacres 1959	13 6 26,255	1 1 (D)	2 2 (D)	2 1 2,285		
Farm water users served directlywater users 1959 Total water conveyedacre-feet 1959	473 8,522,360	(D) (D)	(D) (D)	5 885,368	8,516	1,42
U. S. Bureau of Reclamation; operated by water users	29		3	11	6	_,
1949 Farm area irrigated directlyacres 1959 Farm water users served	NA 845,029	NA	NA 71,444	NA 184,723	NA 4,453	2
directlywater users 1959 Total water conveyedacre-feet 1959	12,466 6,639,274		795 205,711	3,065 452,846	463 24,925	15
U. S. Bureau of Indian Affairsorganizations 1959 1949 Farm area irrigated directlyacres 1959	7 14 3,354	:::	:::		2 5 380	
Farm water users served directlywater users 1959 Total water conveyedacre-feet 1959	443 12,741	:::			91 2,123	
Commercialorganizations 1959 1949 Farm area irrigated directlyacres 1959	51 80 158,517	7 9	4 5	7 10	22 40	
Farm water users served directly	5,919 952,298	3,535 69 64,660	9,248 611 79,007	66,264 434 178,876	19,806	5
Stateorganizations 1959	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		79,007	170,876	96,786	53
Farm area irrigated directlyacres 1959 Farm water users served						
directly water users 1959 Total water conveyedacre-feet 1959						
Cityorganizations 1959 1949 Farm area irrigated directlyacres 1959 Farm water users served	15 22 50,000	3 4 1,177			12 14 20,065	
directlywater users 1959 Total water conveyedacre-feet 1959	2,140 783,254	102 9,198			1,884 652,956	

CALIFORNIA

State Table 2.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Continued

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	Item (For definitions and explanations, see text)	California, total	Klamath River to Santa Maria River excluding Central Valley	San Joaquin River	San Joaquin Valley above San Joaquin River	Santa Maria River and basins south	Sacramento- San Joaquin Delta area, and Sacramento River
			(II-B)	(II-E)	(11-F)	(II-G)	(II-C and II-D)
Ì	TYPE OF SERVICE, 1959						
1	All water directly from surface and				128	510	110
2	ground water sourcesorganizations Total water conveyedacre-feet Water deliveredacre-feet	846 16,817,062 15,002,875	32 208,070 124,493	28 4,511,818 2,841,138	2,487,560 1,971,876	738,930 636,177	4,637,579 2,719,493
5	To farm and residential users onlyorganizations acre-feet	793	25 95,815	23 896,418	115 574,432	488 284,129	100 1,798,767
6	To farm and residential users and other irrigation organizationsorganizations	4,395,091	2	4	11	17	7
7	Water to farm and residential users	1,300,836	8,458	597,883	384,182	36,283	269,516
8	Water to other irrigation organizationsacre-feet	1,472,554	265	1,148,815	220,256	23,613	79,605
9	To other irrigation organizations onlyorganizations	14	4	1	2	4	3
10	acre-feet	7,834,394	19,955	198,022	793,006	292,152	571,605
11	Part of water from other organizationsorganizations	123	5	11	18	70 1,099,947	17 1,986,886
12 13	Total water conveyedacre-feet From surface and ground water	10,545,371	35,268 15,099	1,350,510 312,786	762,813 272,885	632,719	1,210,748
14	sources	504,793 10,040,578	20,169	1,037,724	489,928	467.228	776,138
15 16	Water deliveredacre-feet To farm and residential	8,368,444	29,164	1,063,579	576,332	989,153	1,502,236
17	users onlyorganizations	91 2,779,735	29,164	10 979,969	17 455,166	47 229,650	12 1,034,862
18	To farm and residential users and other irrigation organizationsorganizations	31		1	1	22	5
19	Water to farm and residential usersacre-feet	3,519,369		76,590	120,256	659,958	291,574
20	Water to other irrigation organizationsacre-feet	2,059,636		7,020	910	89,841	175,800
21	To other irrigation organizations onlyorganizations acre-feet	9,704			:::	9,704	:::
23	All of water from other	9,704				,,,,,,	
24	organizationsorganizations Total water conveyedacre-feet	97 1,506,218	2 51	21 324,437	19 524,244	48 235,713	6 54,849
25 26	Water deliveredacre-feet To farm and residential	1,353,965	51	271,098	484,452	230,083	43,225
27	users onlyorganizations acre-feet	80 1,163,366	2 51	21 271,098	19 484,452	32 43,461	39,248
28	To farm and residential users and other irrigation organizationsorganizations	9				9	
29 30	Water to farm residential usersacre-feet Water to other irrigation	20,091				20,091	
31	organizationsacre-feet To other irrigation organizations	11,893				11,893	
32	onlyorganizations	158,615			:::	154,638	3,977
33	No water conveyedorganizations	9			. 1	1	4
	WATER FROM OTHER SOURCES						
34	Organizations reporting NO water from other sources used on land served					500	114
35	by the organizationorganizations acres served	833 3,693,391	31,611		659,613		1,000,734
36 37	acres irrigated Water delivered to farmsacre-fect	3,064,803 10,046,439	66,991	989,673 2,852,236 2.9	784,247	578,530 2.3	3,081,577
38 39	acre-feet per acre Organizations reporting water from other	3.3	2.4	2.9	1.3	2.3	1
	sources used on land served by the organization organizations	208 1,714,108		23 146,494	1,034,026	340,549	15 116,422
40 41 42	acres served acres irrigated Water delivered to farmsacre-feet	1,225,914 2,733,437	6,999	133,175	841,753 1,354,100	82,866 159,622	112,274 465,809
43	acre-feet per acre	2,733,437				1.9	4.1

State Table 2.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Continued

=	<u> </u>						
	Item (For definitions and explanations, see text)	California, total	Klamath River to Santa Maria River excluding Central Valley	San Joaquin River	San Joaquin Valley above San Joaquin River	Santa Maria River and basins south	Sacramento- San Joaquin Delta area, and Sacramento River
			(11-0)	(11-5)	(11-1)	(11-0)	(11-0 and 11-5)
11 22 33 44 55 66 77 88 910 111 121 131 144 155 166 177 188 199 200	corea irrigated. 1.0 to 1.9 acre-feet per acreorganisations	54 319,288 175 485,243 210 589,825 163 600,260 105 266,544 23,99,090 119 25,866 77 1,912	6 560 8 11,278 9 12,309 9 2 115 2 3,141 1 305 1 1 305 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	249,722 274,323 274,323 13 345,882 4 116,373 1 250	287,214 287,214 265,371 1,889 26 44,531 10 3,986 3 23 21 2 596 3 616 	40 30,526 73,822 138 103,418 92 27,640 66 13,003 18 937 11 523 63 21 93 12 12 13 13 13 13 13 13 13 13 13 13 13 13 13	 12 63,165 29 174,999 24 161,662 197,754 495,468 937,721 7 23,900 2 1,066
	SIZE OF ORGANIZATION						
	Size of organization (number of farm irrigation water users served directly):						
21 22 23 24 25 26 27 28 29 30 31 32 33 34 35	None	35 227 336 277 1,589 245 3,924 147 7,624 80 13,414 49 23,7%0 15 66,876	5 6 15 14 90 6 101 4 245 3 3 594 1 308	1 12 30 10 64 12 228 7 901 6 6 1,051 2,167 7 43,705	3 27 29 39 39 41 726 30 1,440 3 2,492 10 5,132 3 3 3 3 32,365	14 156, 176 176, 179, 149 2,336, 78 4,084 3,7 6,020 16,825; 3,719	9 17 43 28 28 29 430 39 1,014 20 3,255 12 5,950 7,693
	Size of organization (acre-feet of water delivered directly to farms):						
36 37 38 39 40 41 42 43 44 45 46 47 48 49 50	None	35 47,941 27,71 135,16 249,149 114 6533,363 78 1,372,993 2,642,298 2,642,298 2,7,679,996	5 1,775 6 3,033 4,862 1 5,696 82,479	1 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	3 3,076 21,113 0 0 0 0 0 0 0 0 0 2,2 170,749 21 381,545 12 701,939 71,939	14 3229 40,809 1800 95,942 66 6121,525 26 124,379 144,379 11 215,916 1 119,561	9 3496 111 7,675 41,772 41,773 182,045 27 458,866 22 1,321,572 8
51 52 53 54 55 56 57 58 59 60 61 62 63 64 65	Size of organization (acre-feet of water conveyed): None	9 359 45,144 230 122,932 139 244,133 1448 842,395 93 1,592,082 2,855,00 44,160,98	15 1,517 2,977 5,806 4,06 27,149 7,83,471 2,2120,229	635 21,258 51,086 11,086 115 89,598 111 185,662 644,540	1 29 3,089 30 17,361 2 52,125 3188,831 187,306,573 1595,776 4,103,201	10 3000 38,631 1,74 91,274 72,70 22,102 267,049 280,969 995,170	4 3 5,223 18 31,720 37 216,115 30 546,963 220 1,186,467 4,956,227

State Table 3.-LAND IRRIGATED BY SOURCE OF WATER, BY DRAINAGE BASINS: CENSUS OF 1959

	Item (For definitions and explanations, see text)	California, total	North Pacific Coast excluding Columbia River	Klamath River to Santa Maria River excluding Central Valley	Sacramento-San Joaquín Delta area and Sacramento River	San Joaquín River	San Joaquin Valley above San Joaquin River	Canta Maria River and Basine south
		74,138	53	7,929	18,382	11,831	15,600	16,115
2	Total acres irrigated	7,395,570	3,013	492,663	1,929,820	1,197,326	2,337,633	548,372
3	Acres irrigated by sprinklersfarms reporting	18,378	38	4,441	4,242	681	1,302	7,117
,	acres	838,547	2,452	184,512	182,399	53,451	228,127	152,669
5	Sprinklers onlyfarms reporting	14,160	36	3,731	3,021	377	582	6,073
6	acres	478,278	2,422	140,888	107,027	24,290	75,471	107, 353
	LAND IRRIGATED, BY SOURCE OF WATER TO INDIVIDUAL FARMS, 1959						·	
7	Ground water sources on farmfarms reporting	40,393	37	6,367	9,736	3,667	14,048	5,122
8	acres	3,644,279	2,522	402,560	745,529	395,688	1,629,446	330,210
9	Ground water sources on farm only farms reporting	26,023	35	5,902	8,156	1,478	5,548	3,899
10	acres	2,248,970	2,423	357,845	522,325	190,346	818,097	256,029
11	Surface sources on farmfarms reporting	5,552	13	1,204	2,671	315	361	337
12	acres	836,452	380	49,379	539,475	39,853	62,687	20,217
13	Surface sources on farm onlyfarms reporting	3,541	11	883	1,668	165	142	178
14	acrea	574,507	294	33,627	387,925	20,725	37,905	9,821
15	1rrigation organization sourcesfarms reporting	43,295	5	864	7,980	10,138	9,743	11,942
16	ccres	2,914,839	111.	40,724	644,816	761,785	645,500	197,945
17	Irrigation organization sources							Ì
	onlyfarms reporting	29,634	5	645	6,643	7,928	1,377	10,775
18	acres	1,865,635	111	14,852	453,976	508,708	162,437	140,907
19	Both farm ground water sources and surface sourcesfarms reporting	1,265	2	279	575	51	163	96
20	acres	308,394	185	32,527	164,213	16,853	43,740	11,454
21	Both irrigation organization and farm ground					i i		
	water or farm surface sourcesfarms reporting	13,675		220	1,340	2,209	8,370	1,167
22	acres	2,398,064		53,812	401,381	460,694	1,275,454	130,161

				California, total			
Item		Mut	ual		U. S. Bureau o	of Reclamation	A
(For definitions and explanations, see text)	All types	Unincorporated	Incorporated	District	Projects and storage systems operated by bureau	Operated by water users	Commercial, Indian, State, city, and other
Irrigation organizationsorganizations 1959	1,075 1,506	384 709	432 561	173 114	13 6	29 NA	73 116
Service area, 1959: Area served, as reported by organizations	5,293,986 4,184,482	93,548 75,038	1,339,885	3,538,731 2,836,277	35,070 · 26,255	935,273 845,029	286,752 211,871
Water users served, 1959, total. water users. Farm irrigation water users. water users. Residential water users. water users. Other water users. water users.	1,152,970 116,037 1,018,384 18,549	8,327 2,074 6,205 48	71,218 22,005 48,942 271	139,117 82,983 55,868 266	1,299 473 746 80	18,906 12,466 6,426 14	933,009 8,502 906,623 17,884
TYPE OF SERVICE, 1959							
All water directly from surface and ground water sources organizations. Total water conveyed	846 16,817,062 15,002,875	379 346,974 295,687	333 1,976,977 1,615,683	79 5,513,974 4,457,863	8,446,865 8,224,134	421,614 196,093	48 532,272 409,508 41
To farm and residential users and other irrigation organizationsorganizations	4,395,091 37	265,694	1,254,930	2,589,120	25,799	190,195 2	259,548
Water to farm and residential usersacre-feet	1,300,836	1,684	196,902	975,080	19,695	5,123	107,475
Water to other irrigation organizations	1,472,554	483	143,897	64,989	1,238,205	775	24,980
onlyorganizations acre-feet	7,834,394	27,826	19,954	828,674	6,940,435	:::	17,505
Part of water from other organizations	123 10,545,371	11,201	1,018,805	8,254,481	75,495	5,344,064	19 1,185,389
sources	504,793 10,040,578 8,368,444	10,821 380 11,098	1-737,453 1,756,258 614,837	376,788 7,877,693 6,723,527	1-1,150 76,645 50,924	1-2,150,824 7,494,888 4,222,196	855,787 329,602 968,058
onlyorganizations acre-feet To farm and residential users and other	2,779,735	910	46 485,886	2,148,216	50,924	162,524	93,799
irrigation organizationsorganizations Water to farm and residential usersacre-feet	3,519,369	10,188	74,240	2,637,660		2,268,887	797,281
Water to other irrigation organizations	2,059,636		54,711	1,927,947		1,790,785	76,978
onlyorganizations	9,704	:::		9,704			:::
All of water from other organizationsorganizations Total water conveyed	97 1,506,218 1,353,965	3 1,054 1,054	37 134,214 122,597	1,340,318 1,208,479	:::	873,596 768,982	30,632 21,835
onlyorganizations acre-feet To farm and residential users and other	1,163,366	3 1,054	32 106,044	42 1,041,415		13 7 57 , 558	14,853
irrigation organizationsorganizations Water to farm and residential	9		4	4		1	1
usersacre-feet Water to other irrigation organizationsacre-feet	20,091		11,431	7,443 8,628		6,104 1,343	1,217
To other irrigation organizations only organizations acre-feet	158,615 9	:::	1 4,155	5 150,993 2		3,977	2 3,467
No water conveyed organizations organizations water FROM OTHER SOURCES Organizations reporting no water from other sources used on the land served by the			2			2	
organizationorganizations acres served acres irrigated water delivered to farms (acre-feet) acre-feer acre	833 3,693,391 3,064,803 10,046,439 3.3	348 82,992 65,015 247,957 3.8	317 767,714 607,105 1,483,199 2.4	2,602,899 2,236,174 7,812,016 3.5	48,380 38,900 139,190 3.6	13 832,994 751,937 3,294,973 4.0	53 191,406 117,609 364,077 3.1
Organizations reporting water from other sources used on land served by the organization	208 1,714,108 1,225,914 2,733,437	33 11,156 10,623 25,848	107 623,635 472,787 821,753	52 983,971 648,242 1,604,563	::: :::	12 201,882 186,082 439,199 2,2	16 95,346 94,262 281,273
acre-feet per acre NEW CAPITAL INVESTMENT, 1950-1959 Expenditures for additional new works and equipment for irrigation and drainage, January 1, 1950-becember 31, 1959	2.2 487 354,593,099 141,377,823	137 496,430	1.7 192 132,700 13,228,681	2.5 118 145,697,702 117,784,059	 12 208,762,697 	2.2 27 145,830,402 16,299,179	28 9,868,653

Item (For definitions and explanations, see text)		Mut	sual		U. S. Bureau	of Reclamation	Commercial.				
(101 del milosono una expanioscomo, over vege)	All types	Unincorporated	Incorporated	District	Projects and storage systems operated by bureau	Operated by water users	Indian, State, city, and other				
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959											
Total entering conveyance systemsorganizations acre-feet	1,066 17,321,855	384 357 , 795	430 1,239,524	171 5,890,762	8,445,715	1-1,729,210	73 1,388,059				
From another drainage basinorganizations	2 387,033			2 387,033		2 387,033					
From drainage basin,			393	119		10	67				
From sources within basinorganizations acre-feet	968 16,934,822	381 357,795	1,239,524	5,503,729	8,445,715	1-2,116,243	1,388,059				
Surface waterorganizations acre-feet	364 15,276,039	90 285,957 295	127 631,791 306	4,771,552 50	8,445,715	1-2,147,864	1,141,024				
Ground waterorganizations acre-feet	688 1,658,783	71,838	607,733	732,177	:::	31,621	247,035				
From other organizations in the basin organizations receiving	219 11,546,796	4 1,434	97 1,890,472	92 9,218,011	76,645	8,368,484	25 360,234				
Total leaving conveyance systemsorganizations acre-feet	1,066 17,321,855	384 330,920	430 2,906,312	171 12,117,838	8 343,720	27 4,842,394	73 1,623,065				
Conveyance loss in basinorganizations acre-feet	436 3,412,068	94 36,477	183 406,360	111 2,530,288	172,158	19 1,147,994	44 266,785				
Conveyed to another drainage basinorganizations acre-feet	302,779	1 3,300	1 299,479			1 299,479					
To drainage basin number	• • • •		• • • • • • • • • • • • • • • • • • • •								
Delivered for use in the basinorganizations acre-feet	1,046	383 291,143	424 2,200,473	164 9,587,550	171,562	3,394,921	70 1,356,280				
To farm irrigation water usersorganizations acre-feet	1,039 12,350,452	381 270,805	2,090,181	162 9,249,377	94,739	3,352,199	645,350				
To domestic water usersorganizations	237 828,036	68 8,725	85 39,252	48 149,557	1,679	38,192	628,823 16				
For other useorganizations	428,520	12 11,613	71,040	21 188,616	75,144	4,530	82,107				
Delivered to other irrigation organizations	96 11,546,796	28,309	42 223,684	26 2,990,935	8,178,640	1,796,880	18 125,228				
SIZE OF ORGANIZATION, 1959											
Size of organization (number of farm irrigation state users) organizations None organizations 1 to 3 water users organizations 4 to 9 water users organizations 30 to 99 water users organizations 100 to 299 water users organizations 100 to 299 water users organizations 300 to 999 water users organizations 300 to 999 water users organizations 1,000 or note water users organizations organizations 0,000 or note water users organizations	39 227 277 241 147 80 49	4 178 148 51 3	11 35 98 143 93 37 14	11 11 15 32 32 28 32 28	9 1 2 	3 1 1 4 8 11	4 3 15 15 18 13 3 2				
Size of organization (scre-feet of water delivered directly to farms): organizations. No. 299 sere-feet organizations. No. 299 sere-feet organizations. 300 to 999 scre-feet organizations. 3,000 to 9,999 scre-feet organizations. 3,000 to 9,999 scre-feet organizations. 30,000 to 9,999 scre-feet organizations. 30,000 to 99,999 scre-feet organizations. 30,000 to 99,999 scre-feet organizations. 100,000 or more scre-feet. organizations.	35 394 247 137 114 78 46	3 240 95 25 18 3	8 119 135 73 50 33 10	11 15 7 21 32 39 29	9 1 1 2	4 1 1 3 7 5	4 20 10 18 13 2 5				
Size of organization (acre-feet of water conveyed): Nome	9 359 230 139 148 93 52		2 104 124 85 63 33 14	2 7 8 14 40 40 32 30	2	2 1 2 4 7 4	12 8 12 19 14 3				

MA Not available.

MA Not available at transferred to the basin and released to natural stream channels in excess of the quantity of surface water withdrawn by irrigation organizations. The net effect was to increase the available surface water supply in the basin or State.

		Klamath	River to Santa M	aria River exclud	ing Central Valley	(II-B)	
Item (For definitions and explanations, see text)		Mut	ual .		U. S. Bureau	of Reclamation	Commercial.
(to our annexous and explanations, see text)	All types	Unincorporated	Incorporated	District	Projects and storage systems operated by bureau	Operated by water users	Indian, State, city, and other
Irrigation organizations.,,,,,,,,organizations 1959	39 54	15 26	11	2 5	1	 NA	10 13
Service area, 1959: Area served, as reported					_		
by organizations	34,349	1,499	10,229	(D)	(a)		4,986
by organizationsacres	30,646	1,263	9,595	(D)	(D)		4,712
Water users served, 1959, totalwater users Farm irrigation water userswater users Residential water userswater users Other water userswater users	110,163 1,332 97,373 11,458	198 75 123	3,960 404 3,548 8	(D)	(D) (D) 730 . 75		104,518 171 92,972 11,375
TYPE OF SERVICE, 1959							
All water directly from surface and ground water sources	32 208,070 124,493	14 9,845 4,040	7 44,785 44,090	1 (D) (D)	(D) (D)	•••	9 73,671 58,400
To farm and residential users and other	95,815	4,040	28,535	(D)			52,140
irrigation organizationsorganizations Water to farm and residential	2		•••		1		1
users/acre-feet Water to other irrigation organizations/acre-feet	8,458				(D)	•••	1,833 27
To other irrigation organizations onlyorganizations	4		3		(D)		1
acre-feet	19,955	•	15,555				4,400
Part of water from other organizations	35,268	:::	3 20,286	(D)	:::	:::	187
sources	15,099 20,169 29,164		4,544 15,742 18,281	(D) (D)			160 27 187
onlyorganizations	5 29,164		3 18,281	(D)			187
To farm and residential users and other irrigation organizationsorganizations	29,104		10,261				
Water to farm and residential users							
Water to other irrigation organizationsacre-feet To other irrigation organizations							
onlyorganizations		:::					
All of water from other organizationsorganizations	2	1	1				
Total water conveyedacre-feet. Water deliveredacre-feet. To farm and residential users	51 51	8	43 43	:::	:::	•••	:::
onlyacre-feet	2 51	1 8	1 43		:::		:::
To farm and residential users and other irrigation organizationsorganizations Water to farm and residential							
users							
organizations							
onlyacre-feet							
No water conveyedorganizations					:::		
WATER FROM OTHER SOURCES Organizations reporting no water from other							
sources used on the land served by the organizations	28 31,611 27,947	11 995 798	6 4,029 3,395	(D) (D)	1 (D) (D)		8 8,952 8,678
water delivered to farms (acre-feet) acre-feet per acre Organizations reporting water from other	66,991 2,4	3,184	15,171	(D) (D)	(D) (D)		21,144
sources used on land served by the organization	6 7,038 6,999 30,858	3 504 465 842	2 6,200 6,200 29,648			:::	1 334 334 368
agre-feet per acre	4.4	1.8	4.8			•••	1.1
Expenditures for additional new works and equipment for irrigation and dreinage, January 1, 1950-becember 31, 1959 organizations By U. S. 8. R dollars dollars By water users organizations dollars See footnotes at end of table.	2,232,026 9,361,427	5 13,648	347,077	(D) (D)	(D)		23,504

		Klamath	River to Santa M	aria River exclud	ing Central Valley	/ (II-B)	
Item (For definitions and explanations, see text)		Mut	ual		U. S. Bureau	of Reclamation	Commercial.
(FOR DELIGIOUS SHO EXPLANATIONS, SEE VEXA)	All types	Unincorporated	Incorporated	District	Projects and storage systems operated by bureau	Operated by water users	Indian, State, city, and other
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959							
Total entering conveyance systemsorganizations acre-feet	39 203,169	15 9,845	11 49,329	2 (D)	1 (D)	***	10 73,831
From another drainage basinorganizations	1				1		
From drainage basin	68,669	:::		(D)	(D)		
From sources within basinorganizations acre-feet	36 154,500	14 9,845	10 49,329	(D)			10 73,831
Surface waterorganizations	16 70,379	5,709	3 19,158	(D)			75,831 7 24,017
Ground waterorganizations acre-feet	24 84,121	10 4,136	7 30,171				7 49,814
From other organizations in the basin organizations receiving	7 20,220	1 8	15,785	1 (D)	:::	:::	1 27
Total leaving conveyance systemsorganizations	39 223,169	15 9,853	11 49,559	(D)	1 (D)		10 69,431
Conveyance loss in basinorganizationsacre-feet	10 11,971	3 255	1 2,005	1 (D)	1 (D)	:::	1,122
Conveyed to another drainage basinorganizations acre-feet	***						
To drainage basin number				:::	:::		
Delivered for use in the basinorganizations	35	15	8 47,554	2 (D)	1 (7)		9
To farm irrigation water usersorganizations acre-feet	211,198	9,598 14 4,026	· g	(D) 2 (D)	(D) 1 (D)	:::	68,309 9 11,077
To domestic water usersorganizations acre-feet	87,414 10 46,074	4,026 2 22	44,819 4 2,040		1 929	:::] 3
For other useorganizationsacre-feet	6 77,710	1 5,550	2,646		57,316	:::	43,083 2 14,149
Uelxvered to other smgatron organizations	6 20,220		15,555		1 238		2 4,427
SIZE OF ORGANIZATION, 1959							
Size of organization (number of farm	5 6 14 6 4 3 1	1 6 7 1	3 2 3 1 2	(D) (D) (D) (D) (D) (D)	(D) (D) (D) (D) (D) (D)		1 5 2 2
Size of organizations (sore-feet of water delivered directly to farms): 1 to 299 acre-feet. organizations. 300 to 999 acre-feet. organizations. 1,000 to 2,999 acre-feet. organizations. 3,000 to 9,999 acre-feet. organizations. 3,000 to 9,999 acre-feet. organizations. 30,000 to 99,999 acre-feet. organizations. 30,000 to 99,999 acre-feet. organizations. 30,000 to 99,999 acre-feet. organizations. Organizations. Organizations.	5 18 6 3 1 6	1 9 4 1 	3 5 3	(D) (D) (D) (D) (D)	(D) (D) (D) (D) (D) (D)		1 4 2 2
Size of organization (acre-feet of water conveyed): organizations None. organizations 1 to 299 acre-feet. organizations. 300 to 999 acre-feet. organizations. 1,000 to 2,999 acre-feet. organizations. 1,000 to 9,999 acre-feet. organizations. 30,000 to 99,999 acre-feet. organizations. 30,000 to 99,999 acre-feet. organizations. 00,000 to nore acre-feet. organizations.	15 6 5 4 7 7 2	9 4 1 1	3 1 2 1 4	(D) (D) (D) (D) (D)	(D) (D) (D) (D) (D) (D)		3 1 2 2 1 1

 $^{{\}tt D}$ Data not shown to avoid disclosure of information for individual organizations. NA Not available.

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

		Sacramento	-San Joaquin Delt	a area and Sacra	mento River (II-C	and II-D)	
Item (For definitions and explanations, see text)		Mut	ual		U. S. Bureau c	of Reclamation	Commercial.
(10) bermeson an expansion, see seasy	All types	Unincorporated	Incorporated	District	Projects and storage systems operated by bureau	Operated by water users	Indian, State, city, and other
Irrigation organizationsorganizations 1959	137 139	31 50	32 26	56 44	7 3	4 NA	11
Service area, 1959: Area served, as reported by organizations	1,041,890	32,786	207,790	681,445		27,339	119,869
by organizationsacres	787,095	25,796	164,166	537,365		24,641	59,768
Water users served, 1959, total	44,020 16,452 27,362 206	205 177 12 16	4,230 2,194 2,030 6	28,284 10,985 17,269 30		1,039 1,032 1	11,301 3,096 8,051 154
TYPE OF SERVICE, 1959							1
All water directly from surface and ground water sources	110 4,637,579 2,719,493	31 127,861 110,572	29 753,930 611,967	38 2,134,422 1,813,381	3 1,429,780 45,364	1 114,809 66,241	191,586 138,209
To farm and residential users onlyorganizations acre-feet	100 1,798,767	31 110,572	28 547,386	34 1,021,830		66,241	118,979
To farm and residential users and other irrigation organizationsorganizations Water to farm and residential	7		1	3	2		1
usersacre-feet Water to other irrigation	269,516		60,595	204,965		• • • •	3,956
organizationsacre-feet To other irrigation organizationsorganizations	79,605		3,986	34,586	38,864		2,169
acre-feet Part of water from other	571,605			552,000	6,500		13,105
organizations organizations. Total water conveyed	1,986,886	:::	21,338	1,623,291		25,636	342,259
sources. acre-feet. From other irrigation organizations. acre-feet. Water delivered. acre-feet. To farm and residential users	1,210,748 776,138 1,502,236		11,500 9,838 19,898	974,651 648,640 1,260,619		12,531 13,105 18,714	224,597 117,660 221,719
onlyorganizations acre-feet To farm and residential users and other	12 1,034,862	:::	19,898	1,014,964		18,714	
irrigation organizationsorganizations Water to farm and residential usersacre-feet.	5 291.574			127,995			163,579
Water to other irrigation organizationsacre-feet To other irrigation organizations	175,800			117,660			58,140
onlyorganizationsacre-feet						• • • • • • • • • • • • • • • • • • • •	:::
All of water from other organizations organizations Total water conveyed	54,849 43,225		8,640 8,640	46,209 34,585		15,516 12,979	:::
onlyorganizations acre-feet To farm and residential users and other	5 39,248		8,640	30,608	:::	1 9,002	:::
To farm and residential users and other irrigation organizationsorganizations Water to farm and residential						• • •	
usersacre-feet Water to other irrigation	•••					•••	
organizationsacre-feet To other irrigation organizations onlyorganizations	1			1		1	
No water conveyedorganizations	3,977			3,977		3,977	:::
WATER FROM OTHER SOURCES Organizations reporting no water from other sources used on the land served by the organization	114 1,000,734	30 32,186	29 197,434	44 657,484	2 12,801	24,630	9 100,829
acres irrigated water delivered to farms (acre-feet) eare-feet per acre	738,607 3,081,577 4.2	25,396 25,776 107,776 4.2	154,995 595,596 3.8	507,484 507,980 2,189,025 4.3	8,758 18,766 2.1	22,196 84,955 3.4	41,478 170,414 4.1
Organizations reporting water from other sources used on land served by the organization	15	1	3	10		1	1
acres served acres Irrigated water delivered to farms (acre-feet) acre-feet per acre	116,422 112,274 465,809 4.1	600 400 1,200 3.0	10,356 9,171 33,333 3.6	86,426 84,413 322,294 3.8		5,418 4,889 18,000 3.3	19,040 18,290 108,982 6.0
NEW CAPITAL INVESTMENT, 1950-1959							
Expenditures for additional new works and equipment for irrigation and drainage, January 1, 1950-December 31, 1959, organizations. By U. S. B. R	78 64,726,081 14,156,918	11 39,920	16 132,700 638,524	40 16,381,450 8,940,163	48,211,931 	16,381,450 635,403	4,538,311

	1.00	Sacramento	-San Josquin Delt	a area and Sacrar	mento River (II-C	and II-D)	
Item (For definitions and explanations, see text)		Mut	ual		U. S. Bureau	of Reclamation	01-1
(FU) UETHIELDIN and EXPLANATION, DEC 9000)	All types	Unincorporated	Incorporated	District	Projects and storage systems operated by bureau	Operated by water users	Commercial, Indian, State, city, and other
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959							
Total entering conveyance systemsorganizations acre-feet	133 5,848,327	31 127,861	32 765,430	56 3,109,073	1,429,780	127,340	11 416,183
From another drainage basinorganizations acre-feet	3 353,200		8,000	2 345,200	:::		
From drainage basin							
From sources within basinorganizations acre-feet	126 5,495,127	31 127,861	31 757,430	2,763,873	1,429,780	127,340	11 416,183
Surface waterorganizations.acre-feet Ground waterorganizations.	5,414,750	31 127,861	751,980	2,690,953	1,429,780	127,340	414,176
acre-feet	80,377	:::	5,450	72,920	:::		2,007
From other organisations in the basinorganizations receiving acre-feet	23 830,987		3 18,478	18 694,849	:::	3 28,621	117,660
Total leaving conveyance systemsorganizations	1.33 5,848,327	31 127,861	32 779, 922	56 3,095,699	3 1,384,416	4 151,984	11 460,429
Conveyance loss in basinorganizations	97 953,886	25 14,366	24 142,403	39 656,267	1 9,966	3 56,529	130,884
Conveyed to another drainage basinorganizations acre-feet	1,404,850			30,400	1,374,450		
To drainage basin number	-,,						
Delivered for use in the basinorganizations acre-feet	126 3,489,591	31 113,495	32 637,519	2,409,032	:::	95,455	10 329,545
To farm irrigation water usersorganizations acre-feet	125 3,331,250	31 108,976	. 628,929	2,313,949	:::	93,955	279,396
To domestic water usersorganizations acre-feet For other useorganizations	21 102,717 15	1,596	7,590	86,413 7		1 2	7,118
acre-feet	55, 624	2,923	1,000	8,670	:::	1,498	43,031
Delivered to other irrigation organisations delivering acre-feet	13 830,987		1 3,986	6 708,223	2 45,364	1 3,977	4 73,414
SIZE OF ORGANIZATION, 1959							
Size of organization (number of farm irrigation water users):							
None organizations	9 17	12		3	5	1	
4 to 9 water usersorganizations 10 to 29 water usersorganizations	28 28	13	5 11	7 9	1		2 2
30 to 99 water usersorganizations 100 to 299 water usersorganizations	19 20		8	10	···í	1	1 4
300 to 999 water usersorganizations 1,000 or more water usersorganizations	12	:::		10	:::		i
Size of organization (acre-feet of water delivered directly to farms):							
Noneorganizations 1 to 299 acre-feetorganizations	9 3	2	 1	3	5	1	1
300 to 999 acre-feetorganizations 1,000 to 2,999 acre-feetorganizations	11 24	7	2 7	2 5	:::		 1
3,000 to 9,999 scre-feetorganizations 10,000 to 29,999 scre-feetorganizations	33 27	9 2	9	9 15	1		5 1
30,000 to 99,999 scre-feetorganizations 100,000 or more scre-feetorganizations	22 8	:-:	1	16 6	:::		2
Size of organization (acre-feet of water conveyed):							
Noneorganizations 1 to 299 acre-feetorganizations	4 3		 1				
300 to 999 acre-feetorganizations 1,000 to 2,999 acre-feetorganizations	8 18	5 11	2 4	1 2	:::		1 3
3,000 to 9,999 acre-feetorganizations 10,000 to 29,999 acre-feetorganizations	37 30	10 3	12 7	11 16	1	1 2	3 4
30,000 to 99,999 acre-feetorganizations 100,000 or more acre-feetorganizations	20 17	:::	4 2	15 11	1	1	3

NA Not available.

			San	Joaquin River (I	I-E)		
Item (For definitions and explanations, see text)		Mut	ual		U. S. Bureau	of Reclamation	Commercial,
(FOI GELIHIOLOUS and explanations, see (ext)	All types	Unincorporated	Incorporated	District	Projects and storage systems operated by bureau	Operated by water users	Indian, State, city, and other
Irrigation organizationsorganizations 1959	60 55	8 20	10 11	36 17	2 2	3 NA	
Service area, 1959: Area served, as reported by organizationsacres	1,080,380	7,000	122,056	(D)	(D)	122,709	9,55
Area irrigated, as reported by organizationsacres	910,623	1,190	99,559	(D)	(D)	71,444	9,24
Water users serwed, 1959, total. water users. Farm irrigation water users mater users. Recidental water users water users. Other water users water users.	32,278 29,150 3,123 5	20 20 	901 526 375	(D) (D) (D)	(D) (D) (D)	797 795 1 1	3,29 61 2,68
TYPE DF SERVICE, 1959							
All water directly from surface and ground water sources. organizations. Total water conveyed	28 4,511,818 2,841,138	8 10,235 7,926	46,030 44,728	10 (D) (D)	(D) (D)		79,00° 58,60
To farm and residential users and other	896,418	7,926	44,728	(D)			55,144
irrigation organizationsorganizations Water to farm and residential	4			2	1		1
water to other irrigation	597,883			(D)	(D)		34:
organizationsacre-feet To other irrigation organizationsorganizations	1,148,815			1,250	(D)		3,11
acre-feet	198,022		•••		(D)		1
Part of water from other organizationsorganizations Total water conveyedacre-feet From surface and ground water	11 1,350,510		364,867	7 (D)	:::	107,502	:::
sourcesacre-feet From other irrigation organizationsacre-feet Water deliveredacre-feet To farm and residential users	312,786 1,037,724 1,063,579	:::	58,398 306,469 297,424	(D) (D) (D)	:::	1-1,320 108,822 80,180	
onlyorganizations	10 979,969	:::	297,424	(D)	:::	80,180	
To farm and residential users and other irrigation organizationsorganizations Water to farm and residential	1			1			
users	76,590			(D)			
organizationsacre-feet To other irrigation organizations onlyorganizations	7,020			(D)			
acre-feet						• • • • • • • • • • • • • • • • • • • •	•••
All of water from other organizationsorganizations. Total water conveyed	21 324,437 271,098		9,449 9,335	(D) (D)		98,209 53,452	:::
onlyorganizations acre-feet	21 271,098		9,335	19 (D)	:::	53,452	:::
To farm and residential users and other irrigation organizationsorganizations							
Water to farm and residential usersacre-feet Water to other irrigation							
organizationsacre-feet To other irrigation organizations							
onlyorganizations acre-feet No water conveyedorganizations.			:::	:::		:::	
WATER FROM OTHER SOURCES Organizations reporting no water from other sources used on the land served by the						_	
organizationorganizations acres served acres irrigated water delivered to farms (acre-feet) acre-feet per acre	36 1,162,036 989,673 2,852,236 2.9	6,768 958 7,582 7.9	7 61,192 44,592 171,137 3,8	22 (D) (D) (D) (D)	(D) (D) (D) (D) (D)	120,000 69,000 124,630 1.0	2,036 2,036 8,574
Organizations reporting water from other sources used on land served by the	23		3	14		,	
organizationorganizations	146,494 133,175 468,635 3.5	232 232 344 1.5	60,864 54,967 179,700 3.3	(D) (D) (D) (D)		5,418 4,889 18,000 3.3	8,19 7,88 48,18 6.1
NEW CAPITAL INVESTMENT, 1950-1959 Expenditures for additional new works and							
agent ones to enutional new works and equipment for irrigation and drainge, January 1, 1950-December 31, 1959 organizations. By U. S. B. R	33 34,029,224 61,291,525		7 601,655	22 (D) (D)	(D)	9,112,750 652,702	695,910

			San	Joaquin River (II	-E)		
Item		Mut	ual		U. S. Bureau	of Reclamation	Commercial.
(For definitions and explanations, see text)	All types	Unincorporated	Incorporated	District	Projects and storage systems operated by bureau	Operated by water users	Indian, State, city, and other
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959							
Total entering conveyance systemsorganizations acre-feet	60 4,832,908	8 10,235	10 104,428	36 (D)	(D)	1 _{-1,320}	79,007
From another drainage basinorganizations acre-feet From drainage basinD. B. No	1,478,261			(D)	(D)		
From sources within basinorganizations	36 3,354,647	8 10,235	8 104,428	15 (D)	1 (D)	1 1-1,320	79,007
Surface waterorganizations acre-feet	25 2,847,151	9,655	5 46,531	12 (D)	1 (D)	1 1-1,320	79,007
Ground waterorganizations acre-feet	507,496	5	6 57,897	(D)			
From other organizations in the basin organizations receiving	30 1,353,857		6 315,918	24 (D)		3 207,031	
Total leaving conveyance systemsorganizationsacre-feet	60 4,832,908	8 10,235	10 420,346	36 (D)	(D)	205,711	75,890
Conveyance loss in basinorganizationsacre-feet	35 745,739	5 2,309	68,859	19 (D)	2 (D)	72,072	3 20,403
Conveyed to another drainage basinorganizations acre-feet	1,206,751			(D)	(D)		
To drainage basin numberD. B. No	-,,						
Delivered for use in the basinorganizations acre-feet	2,880,418	7,926	10 351,487	36 (D)	(D)	133,639	55,487
To famm irrigation water usersorganizations acre-feet	58 2,819,536	8 7,926	10 350,837	36 (D)	(D)	133,630	53,717
To domestic water usersorganizations acre-feet For other useorganizations	2,422		650	(D)		2	1,770
acre-feet	58,460	:::		(D)	:::	7	111
Velivered to other irrigation organizations organizations delivering,	5 1,353,857			(D)	(D)	:::	3,117
SIZE OF ORGANIZATION, 1959							
Size of organization (number of farm irrigation water users):	1						
Noneorganizations 1 to 3 water usersorganizations	1 12			(D) (D)	(D) (D)		
4 to 9 water usersorganizations 10 to 29 water usersorganizations	10 12	1	1 2	(D)	(D) (D)		1
30 to 99 water usersorganizationa 100 to 299 water usersorganizations	7 6 5	:::	1	(D) (D)	(D) (D)	1	2
300 to 999 water usersorganizations 1,000 or more water usersorganizations	7	:::		(D)	(D)		
Size of organization (acre-feet of water delivered directly to farms):					A		
Noneorganizations 1 to 299 acre-feetorganizations	1 6		:::	(D)	(D) (D)	:::	***
300 to 999 acre-feetorganizations 1,000 to 2,999 acre-feetorganizations	2 5	1	1	(D)	(D)	:::	
3,000 to 9,999 acre-feetorganizations 10,000 to 29,999 acre-feetorganizations	17	1	3 2	(D)	(D)	···i	3
30,000 to 99,999 acre-feetorganizations 100,000 or more acre-feetorganizations	10	:::	2	(D)	(D)	2	1
Size of organization (acre-feet of water conveyed):							
Noneorganizations 1 to 299 acre-feetorganizations				(D)	(D)	:::	:::
300 to 999 acre-feetorganizations 1,000 to 2,999 acre-feetorganizations	2 5	"i	1	(D)	(D)	:::	
3,000 to 9,999 acre-feetorganizations 10,000 to 29,999 acre-feetorganizations	15 11		3 2	(D) (D)	(D)	i i	1 2
30,000 to 99,999 acre-feetorganizations 100,000 or more acre-feetorganizations	10 11		2	(D) (D)	(D)	1	

D Data not shown to avoid disclosure of information for individual organizations.

NA hot available.

Whater was transferred to the basin and released to natural atream channels in excess of the quantity of surface water withdrawn by irrigation organizations. The net effect was to increase the available surface water supply in the basin or State.

			San Joaquin Valle	y above San Joaq	uin River (II-F)		
Item		Mut	ual		U. S. Buresu o	of Reclamation	
(For definitions and explanations, see text)	All types	Unincorporated	Incorporated	District	Projects and storage systems operated by bureau	Operated by water users	Commercial, Indian, State, city, and other
Irrigation organizationsorganizations 1959 1949	166 245	53 117	73 94	31 20	2 1	11 NA	1
Service area, 1959: Area served, as reported by organizationsacres Area irrigated, as reported	1,621,070	12,731	653,593	884,569	3,913	199,994	66,26
by organizationsacres	1,392,624	12,351	536,167	775,557	2,285	184,723	66,26
Water users served, 1939, total	34,291 32,441 1,844 6	362 294 67	3,090 2,926 164 	30,395 28,782 1,613	10 5 5	4,378 3,065 1,313	43 43
TYPE OF SERVICE, 1959							
All water directly from surface and ground water sources organizations. Total water conveyed asre-feet. Water delivered asre-feet To farm and residential users only organizations.	128 2,487,560 1,971,876	51 85,250 75,334 50	59 728,334 579,956 52	10 627,937 361,121 9	885,368 826,558		160,67 128,90
acre-feet To farm and residential users and other irrigation organizationsorganizations	574,432 11	50,071	351,246 7	162,601	1	•••	10,51
Water to farm and residential users	384,182		109,116	171,720	4,160		99,18
Water to other irrigation organizations	220,256		119,594	26,800	54,655		19,20
onlyorganizations	793,006	25,263			767,743		::
Part of water from other organizations organizations. Total water conveyed acre-feet. From surface and ground water	18 762,813	1 910	28,007	733 , 896	:::	64 , 619	::
sourcesacre-feet	272,885 489,928	530 380	18,549 9,458	253,806 480,090	:::	2,324 62,295	::
From other irrigation organizationsacre-feet Water deliveredacre-feet To farm and residential users onlyorganizations	576,332	910	25,276	550,146		63,630	
acre-feet	455,166	910	25,276	428,980		63,630	
To farm and residential users and other irrigation organizationsorganizations Water to farm and residential	1 120,256			120,256			
usersacre-feet Water to other irrigation organizationsacre-feet	910			910		•••	
To other irrigation organizations onlyorganizations					:::		::
acre-feet All of water from other organizations Total water conveyed	19 524,244	1 910	71,645	10 433,484	:::]	8 388,227	18,20
Water delivered	484,452 19 484,452	910 1 910	60,960 7 60,960	413,005 10 413,005		372,800 8 372,800	9,57
To farm and residential users and other	·						1
irrigation organizationsorganizations Water to farm and residential usersacre-fcet							
Water to other irrigation organizationsacre-feet To other irrigation organizations							
onlyorganizations acre-feet No water conveyed. organizations.							
WATER FROM OTHER SOURCES Organizations reporting no water from other sources used on the land served by the organization	93	47	32	13	1	1	
acres served acres irrigated water delivered to farms (acre-feet) acre-feet per acre	659,613 622,644 784,247 1.3	10,511 10,381 48,499 4.7	197,766 197,222 98,988 0.5	444,854 410,983 623,690 1.5	6,482 4,058 13,070 3.2	4,000 4,000 13,978 3.5	::
Organizations reporting water from other sources used on land served by the organizations acres served acres served acres irrigated	70 1,034,026 841,753	5 2,220 1,970	40 455,827 338,945	18 509,715 434,574		10 195,994 180,723	66,26 66,26
water delivered to farms (acre-feet) acre-feet per acre	1,354,100	2,719 1.4	447,610 1.3	784,494 1.8		420,886 2.1	119,27
NEW CAPITAL INVESTMENT, 1950-1959 Expenditures for additional new works and equipment for irrigation and drainage, January 1, 1950-December 31, 1959organizations	94	21	43	22	2	9	
By U. S. B. R	93,566,915 9,588,495	82,082	2,411,180	41,197,200 6,735,744	52,369,715	41,197,200 1,366,201	359,48

State Table 4.-NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950-Con.

			San Joaquin Vall	ey above San Joaq	uin River (11-F)		
Item		Mut	ual		U. J. Bureau o	of Reclamation	Commercial.
(For definitions and explanations, see text)	All types	Unincorporated	Incorporated	District	Projects and storage -y stems operated by bureau	Operated by water users	Indian, State, city, and other
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959							
Total entering conveyance systemsorganizations acre-feet	2,760,445	53 85,780	72 746,883	881,743	885,368	11 2,324	7 160,671
From another drainage basinorganizations acre-feet	861,551				861,551		
From drsinage basin	145	52	65	21	1	2	6
From sources within basinorganizations acre-feet Surface waterorganizations	1,898,894	85,780 28	746,883 46	881,743	23,817	2,324	160,671
acre-feet	1,659,667	78,491 26	663,107 24	733,581 10	23,817	1-1,101 2	160,671
Ground waterorganizations acre-feet	239,227	7,289	83,776	148,162	:::	3,425	
From other arganizations in the basin organization receiving acre-feet	37 1,014,172	2 1,290	13 81,103	913,574		450,522	18,205
Total leaving conveyance systemsorganizations are-feet	165 2,760,445	53 61,807	72 708,392	31 1,767,607	62,970	11 452,846	7 159,669
Conveyance loss in basinorganizations acre-feet	106 492,153	30 9,916	47 150,576	21 250,287	40,982	7 16,038	6 40,392
Conveyed to another drainage basinorganizations acre-feet	1 142,080			142,080			
To drainage basin number	• • • •						
Delivered for use in the basinorganizations	164 2,126,212	52 51,891	72 557,816	31 1,375,240	21,988	11 436,808	119,277
To farm irrigation water usersorganizations acre-feet	163 2,014,957	52 _. 51,218	72 546,598	1,293,704	4,160	11 434,864	119,277
To domestic water usersorganizations	13 3,531	8 673		2,858		1,566	
For other useorganizations acre-feet	107,724		11,218	78,678	17,828	1 378	
lieltwered to other impation organizations delicerny, organizations delicerny, acte-feet	14 1,014,172	1 25,263	7 119,594	2 27,710	822,398		19,207
SIZE OF ORGANIZATION, 1959							}
Size of organization (number of farm irrigation water users) organizations. None organizations. 1 to 3 water users organizations. 4 to 9 water users organizations. 30 to 99 water users organizations. 100 to 99 water users organizations. 100 to 99 water users organizations. 300 to 999 water users organizations. 100 to 999 water users organizations. 1,000 or nore water users organizations.	4 27 39 40 30 13 10 3	1 23 20 9	2 3 17 25 20 4 4	 1 4 7 8 8 8	 	 1 2 5 3	2 2 2 3 1
Size of organization (acre-feet of water delivered directly to farms): According to the control of the contr	3 30 36 30 28 21 12	1 25 15 8 4	1 5 20 18 15 10 2	1 1 6 10 4	: ::: ::: ::: :::	2 5 2 2 2	 3 3
Size of organization (acre-feet of mater conveyed) organizations No. 10 299 acre-feet organizations 300 to 999 acre-feet organizations 1,000 to 2,999 acre-feet organizations 3,000 to 9,999 acre-feet organizations 1,0,000 to 29,999 acre-feet organizations 30,000 to 99,999 acre-feet organizations 30,000 to 99,999 acre-feet organizations 100,000 or nore acre-feet organizations	1 29 30 29 34 17 13	24 13 9 6 1	1 5 16 19 18 7 4	 1 1 5 8 9 7			 5 1

NA Not available.

Where was transferred to the basin and released to natural stream channels in excess of the quantity of surface water withdrawn by irrigation organizations. The net effect was to increase the available surface water supply in the basin or State.

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

			Santa Maria R	iver and Basins :	outh (II-G)		
Item (For definitions and explanations, see text)		Mut	ual		U. S. Bureau o	f Reclamation	Commercial.
(202 oct and and oct and oct oct oct oct oct oct oct oct oct oct	All types	Unincorporated	Incorporated	District	Projects and storage systems operated by bureau	Operated by water users	Indian, State city, and othe
rrigetion organizationsorganizations 1959	629 951	259 467	293 402	40 23	1	6 NA	
ervice area, 1959: Area served, as reported							
by organizationsacres Area irrigated, as reported	720,001	19,521	312,323	334,920		4,453	53,
by organizationsacres	304,678	17,142	194,911	52,374	•••	4,453	40,
ter users served, 1959, total. water users. Farm irrigation water users. water users. Residential water users. water users. Other water users. water users.	912,386 27,608 877,912 6,866	7,421 1,417 5,979 25	57,944 15,634 42,054 256	38,138 7,022 30,885 231	:::	4,109 463 3,639 7	808, 3, 798, 6,
TYPE OF SERVICE, 1959							
l water directly from surface and ground arer sources	738,930 636,177	258 63,392 61,394	223 305,860 247,153	12 338,585 298,240	8,516 8,516 8,516	1 2,375 1,384	22, 20,
onlyorganizations	488 284,129	255 56,664	209 195,246	13,962	:::		18,
To farm and residential users and other irrigation organizations organizations Water to farm and residential	17	2	12	2		1	}
usersacre-feet	36,283	1,684	27,191	5,251		609	2,
Water to other irrigation organizationsacre-feet To other irrigation organizations	23,613	483	20,317	2,353		775	
onlyorganizations acre-feet	292,152	1 2,563	4,399	276,674	8,516		
rt of water from other rganizationsorganizations Total water conveyedacre-feet	70 1,099,947		284,828	10 93,274		1 12,846	721
From surface and ground water sourcesacre-feet	632,719 467,228		212,573	31,316		4,330 8,516	388 333
From other irrigation organizationsacre-feet Water deliveredacre-feet To farm and residential users	989,153		72,255 253,958	61,958 85,943		9,704	649
onlyorganizations	47 229,650		31 125,007	11,031			93
To farm and residential users and other irrigation organizations organizations Water to farm and residential	22		13	3		1	
usersacre-feet Water to other irrigation	659,958		74,240	43,932			541
organizationsacre-feet To other irrigation organizations	89,841		54,711	21,276		9,704	13
onlyorganizations acre-feet	9,704			9,704	:::		1
l of water from other organizationsorganizations Total water conveyedacre-feet Water deliveredacre-feet To farm and residential users	48 235,713 230,083	1 136 136	26 4-,437 43,619	17 183,697 179,054		9,704 9,679	7 7
onlyorganizations	32 43,461	1 136	21 27,066	9 15,967	:::	2,232	
To farm and residential users and other irrigation organizationsorganizations	9		**	4		1	İ
Water to farm and residential usersacre-feet	20,091		11,431	7,443		6,104	1
Water to other irrigation organizations	11,893		967	8,628		2,333	2
onlyorganizations acre-feet water conveyedorganizations	7 154,638 1		4,155	147,016		::: 1	3
WATER FROM OTHER SOURCES ganizations reporting no water from other curees used on the land served by the	1			1		-	
rganizationorganizations acres served acres irrigated water delivered to farms (acre-feet)	528 410,680 253,040 578,530	241 17,902 15,556 48,737	234 234,101 143,085 321,255	24 75,723 24,407 34,213		3,983 3,983 5,526	82 69 174
acre-feet per acre ganizations reporting water from other	2.3	3.1	2.2	1.4		1.4	
sources used on land served by the organizations	87	17	56	9		1	
acres served acres irrigated water delivered to farms (acre-feet) acre-feet per acre	340,549 82,866 159,622 1.9	1,619 1,586 4,091 2.6	78,222 51,826 110,707 2.1	259,197 27,967 40,360 1.4		470 470 313 0.7	1 1 4
NEW CAPITAL INVESTMENT, 1950-1959							
kpenditures for additional new works and equipment for irrigation and drainage, January 1, 1950-lecember 31, 1959organizations By U. S. B. Rdollars By water users organizationsdollarsdol	245 101,165,959 30,219,098	88 245,915	118 9,077,535	26 67,035,400 16,727,209	1 34,130,559 	67,035,400 28,685	4,168,

			Santa Moria I	River and Basins	south (II-G)		
Item (For definitions and explanations, see text)		Mut	ual		U. S. Bureau o	f Reclamation	Commercial,
(ror definitions and explanations, see text)	All types	Unincorporated	Incorporated	District	Projects and storage systems operated by fureau	Operated by water users	Indian, State, city, and other
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959							
Total entering conveyance systemsorganizations acre-feet	628 1,492,749	259 63,392	293 518,433	39 369,901	8,516	6,705	36 532,507
From another drainage basinorganizations acre-feet From drainage basin	579,459 			276,708			302,751
Prom sources within basin organizations acre-feet surface water organizations organizations organizations organizations organizations organizations.	578 913,290 68 223,674 553 689,616	258 63,392 8 4,612 252 58,780	267 518,433 37 103,996 258 414,437	21 93,193 11 71,047 15 22,146	8,516 1 8,516	6,705 1 2,375 1 4,330	31 229,756 11 35,503 28 194,253
From other organizations in the basin organizations receiving	118 581,841	1 136	70 116,692	27 245,655		18,220	20 219,358
Total leaving conveyance systemsorganizations acre-feet	628 1,492,749	259 60,482	293 550,576	39 149,905	1	5 13,103	36 731,786
Conveyance loss in basinorganizations acre-feet	157 91,492	14 172	100 32,271	22 9,511		3 1,511	21 49,538
Conveyed to another drainage basinorganizations acre-feet						***	
To drainage basin number		•••				***	• • • • • • • • • • • • • • • • • • • •
Delivered for use in the basin	619 1,401,257 615 641,356 172 632,216 52 127,685	259 60,310 258 52,828 51 5,656 8	291 518,305 290 431,962 73 28,219 26 58,124	34 140,394 33 74,573 27 23,013 9 42,808		5 11,592 4 5,839 4 3,106 2 2,647	35 682,248 34 81,993 21 575,328 9 24,927
l'elivered in other impation organizations	59 581,841	3 3,046	31 84,549	15 465,651	1 8,516	3 11,822	9 20,079
SIZE OF ORGANIZATION, 1959 Size of organization (number of farm irrigation water users) organizations. 1 to 3 water users organizations. 4 to 9 water users organizations. 30 to 99 water users organizations. 100 to 29 water users organizations. 100 to 29 water users organizations. 300 to 999 water users organizations. 300 to 999 water users organizations. 300 to 999 water users organizations. 300 to 999 water users organizations. 300 to 990 water users organizations.	16 156 176 147 78 37 16	2 123 99 32 3 	4 26 72 100 55 26 9	74 11 78 87 5	1 	2 1 1 2	2 3 4 8 12 4 2
Size of organization (more-feet of water delivered directly to farms): Organizations (more delivered directly to farms): Organizations (more delivered directly to farms): Organizations (more delivered directly organizations): 1,000 to 999 more-feet organizations (more delivered directly organizations): 10,000 to 9,999 more-feet organizations (more delivered directly organizations): 10,000 to 99,999 acre-feet organizations (more delivered directly organizations): 100,000 to 99,999 acre-feet organizations (more delivered directly organizations):	14 329 180 68 26 11	1 195 63 	3 107 108 46 20 9	7 14 3 11 4 1	 	211111111111111111111111111111111111111	2 13 6 11 2 1
Size of organization (acre-feet of water conveyed): None	1 300 174 75 47 23 6	192 63 3 1	94 101 57 28 10	1 7 5 8 10 5 2 2	 2	1 1 2 1 1	 7 5 7 7 8 8

NA Not available.

State Table 5.—NUMBER OF IRRIGATION ORGANIZATIONS, TYPE OF SERVICE, NEW CAPITAL INVESTMENT, AND WATER CONVEYED, BY SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUS OF 1959

Item		Californi	a, total		Klam	ath River to a excluding Cer (II-	tral Valley	lver
(For definitions and explanations, see text)			Size of or	ganization, b	y total water	conveyed		
	0-999 acre-feet	1,000- 9,999 acre-feet	10,000- 99,999 acre-feet	100,000 or more acre-feet	0-999 acre-feet	1,000- 9,999 more-feet	10,000- 99,999 acre-feet	100,00 or mor acre-fe
Number of organizations	598	287	145	45	21	9	9	
All water directly from surface and ground sourcesorganizations	540	202	80	24	16	9	7	
Total water conveyedacre-feet Water deliveredacre-feet	148,487 143,560	736,216 623,149	2,356,695 1,857,486	13,575,664	4,025 3,870	29,020 19,868	175,025 100,755	
To farm and residential users onlyorganizations acre-feet	531 137,592	183 556,502	68 1,612,913	2,088,084	15 3,317	9,909	82,589	
To farm and residential users and other	131,372	,	1,012,713			,,,,,,		
irrigation organizations	4,351	12 25,332	135,876	1,135,277		1,833	6,625	
Water to other irrigation organizationsacre-feet To other irrigation organizations onlyorganizations	1,064	11,238	59,026	1,401,226		27	238	
acre-feet	553	30,077	49,671	7,754,093	553	8,099	11,303	
Part of water from other organizationsorganizations Total water conveyedacre-feet	27 11,708	36 152,138	1 /76 216	2 005 200	3 418		2 34,850	
From surface and ground water sourcesacre-feet	7,056	85,375	1,476,316 781,775	8,905,209 1-369,413	204		14,895	
From other irrigation organizationsacre-feet Water deliveredacre-feet	4,652 11,267	66,763 136,769	694,541 1,257,771	9,274,622 6,962,637	214 418		28,746	
To farm and residential users onlyorganizations	9,911	29 110,708	28 860,80b	1.798,310	3 418		28.746	
To farm and residential users and other	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	110,700	000,000	1,750,510	-10			
irrigation organizationsorganizations	957	19,541	287,316	3,211,555				
Water to other irrigation organizationsacre-feet To other irrigation organizations onlyorganizations	399	6,520	99,945	1,952,772				
acre-feet			9,704					
All of water from other organizationsorganizations Total water conveyedacre-feet	8,884	49 198,174	570,440	728,720	2 51	:::		
Water deliveredacre-feet	8,526	181,989	478,043	685,407	51			
To farm and residential users onlyorganizations acre-feet	7,991	135,393	449,935	570,047	51			
To farm and residential users and other irrigation organizationsorganizations	2	7						
irrigation organizations	473 62	19,618 11,831	:::					
To other irrigation organizations onlyorganizations	1	15,147	28,108	1 115,360				
acre-feet No water conveyedorganizations	9	15,147	28,108	115,360				
WATER FROM OTHER SOURCES	,							
Organizations reporting NO water from other sources used								
on land served by the organizationorganizations	90,696	327.306	95 1,071,946	2,203,443	1.699	1.927	27,985	
acres irrigated	52,603	198,491	904,263	1,909,446	1,338	1,683	24,926	
Organizations reporting water from other sources used on land served by the organizationorganizations	78	73	44	13	4		2	
scres served acres irrigated	18,582 13,451	331,262 167,161	763,945 480,348	600,319 564,954	838 799		6,200 6,200	
NEW CAPITAL INVESTMENT, 1950-1959	13,431	167,101	400,340	304,334			0,200	
Expenditures for additional new works and								
equipment for irrigation and drainage, January 1, 1950-becember 31, 1959organizations dollars	209 80,001,035	146 148,656,826	97 69,713,101	35 197,599,960	26,025	230,000	7 11,337,428	
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959							9	
Total entering conveyance systems in basinorganizations acre-feet	589 155,543	287 821,591	3,138,470	13,206,251	4,229	29,020	189,920	
From another drainage basinorganizationsacre-feet				387,033		:::	68,669	
From Drainage Basin number	567	238		40	19			
From natural sources within basinorganizations	155,543	821,591	123 3,138,470	12,819,218	4,229	29,020	121,251	
Surface waterorganizationsacre-feet	75 27,090	145 532,283	104	12,151,141	648	19,710	50,021	
Ground waterorganizations	503 128,453	122 289,308	50 572,945	13 668,077	3,581	9,310	71,230	
From other organizations in the basin	49	85	64	21	5		19,955	
acre-feet	13,536	264,937 287	1,264,981	10,003,342	265		19,955	
Total leaving conveyance systemsorganizations acre-feet	167,001	1.011.715	4,156,997	11,986,142	3,941	20,894	198,334	
Conveyance loss in basinorganizations acre-feet	113 4,049	178 92,571	106 630,425	2,685,023	155	1,027	10,789	
Conveyed to another drainage basinorganizations		3,300		299,479		:::		
To drainage basin number		278	140	40	20			
Delivered for use in the basinorganizations acre-feet	162,952	915,844	3,526,572	9,001,640	3,786	19,867	187,545	
To farm irrigation water usersorganizations	587 151,918	275 770,400	138 3,102,382	8,325,752	3,731	5,863	77,820	
To residential water usersorganizationsacre-feet	9,357	85 96,694	32 244,464	477,521	5	5,879	40,140	
For other useorganizations	15	34	25	9		. 4	. 2	
Bere-feet Delivered to other irrigation organisationsorganizations delivering	1,677	48,750 37	179,726	198,367	1	8,125	69,585	
acre-feet	2,078	74,813	246,454	11,223,451	553	8,126	11,541	
AVERAGE DELIVERY OF IRRIGATION WATER PER ACRE, 1959		1						
Per acre irrigated, as reported by irrigation organization: All organizationsacre-feet	2.3	2.1	2.3	3.5	1.7	3.5	2.9	
Organizations reporting NO water from other sources used on land served by the organizationorganizations	1	202	95	27	16	6	6	
acre-feet	2.5	2.6	2.4	3.7	1.9	3.5	2.4	1

Water was transferred to the basin and released to natural stream channels in excess of the quantity of surface water withdrawn by irrigation organizations. The net effect was to increase the available surface water supply in the basin or State.

State Table 5.–NUMBER OF IRRIGATION ORGANIZATIONS, TYPE OF SERVICE, NEW CAPITAL INVESTMENT, AND WATER CONVEYED, BY SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUS OF 1959–Continued

		Sacre	amento-San Jos and Sacrams (II-C and	ento River	ea		San Joaqui		
	Item (For definitions and explanations, see text)		(II-C and		zanization)	y total water	(II-E)	
		0-999 acre-feet	1,000- 9,999 acre-feet	10,000- 99,999 acre-feet	100,000 or more acre-feet	0-999 acre-feet	1,000- 9,999 acre-feet	10,000- 99,999 acre-feet	100,000 or more acre-feet
1 7	Number of organizationsorganizations	15	55	50	17	8	20	21	11
2	TYPE OF SERVICE	11	49	41	9	7		6	ļ ,
3	Total water conveyed	5,838 5,428	208,224 185,294	1,408,012	3,015,505 1,424,101	935	40,660 38,362	135,410 106,839	4,334,81 2,695,03
5	To farm and residential users onlyorganizations acre-feet	11 5,428	48 178,794	987,979	626,566	906 7 906	7 38,362	103,379	753,77
7	To farm and residential users and other irrigation organizationsorganizations	,,420	170,774	201,577	3	,,,,	30,302	103,379	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
8	Water to farm and residential usersacre-feet Water to other irrigation organizationsacre-feet			72,231 31,355	197,285 48,250			343 3,117	597,54 1,145,69
0	To other irrigation organizations onlyorganizations acre-feet		6,500	13,105	552,000	:::			198,02
2 1	Part of water from other organizationsorganizations		2	7	8	1	1	6 366,226	978.07
3	Total water conveyedacre-feet From surface and ground water sourcesacre-feet	:::	18,325 5,993	214,347 153,306	1,754,214	958 270	5,250 4,000	209,852	98,66
5 6 7	From other irrigation organizationsacre-feet	:::	12,332 16,885	61,041 145,775	702,765 1,339,576	688 858	1,250 4,773	156,374 317,802	879,41 740,14
В	acre-feet	:::	16,885	127,777	890,200	858	4,773	234,192	740,14
9	To farm and residential users and other irrigation organizationsorganizations			2	3			76,590	
1	Water to farm and residential usersacre-feet Water to other irrigation organizationsacre-feet	:::	:::	7,995 10,003	283,579 165,797	:::	:::	7,020	::
3	To other irrigation organizations onlyorganizations acre-feet	:::	:::	:::	:::	:::	:::	:::	::
5 1	All of water from other organizationsorganizations Total water conveyedacre-feet	:::	21,286	33,563		:::	12 54.774	9 269,663	::
26	Water dellveredacre-feet To farm and residential users onlyorganizations		15,176	28,049		:::	54,288 12	216,810	
8	acre-feet To farm and residential users and other		11,199	28,049	•••		54,288	216,810	
0	irrigation organizationsorganizations Water to farm and residential usersacre-feet								::
1	Water to other irrigation organizations			:::					
13	acre-feet		3,977						
4 1	No water conveyedorganizations WATER FROM OTHER SOURCES	4	•••			•••			
5 0	Organizations reporting NO water from other sources used								
6	on land served by the organizationorganizations acres served	11 2,585	47 63,535	42 344,484	14 590,130	4,248	10 38,910	13 187,123	931,75
7 8 0	acres irrigated Organizations reporting water from other sources used	1,814	51,203	295,314	390,276	398	14,759	143,548	830,96
9	on land served by the organizationorganizations	:::	9,589	75,049	31.784	232	10 30,885	65,218	50,15
	acres irrigated NEW CAPITAL INVESTMENT, 1950-1959		8,327	72,913	31,034	232	19,318	63,466	50,15
1	Expenditures for additional new works and equipment for irrigation and drainage,								
- 1	January 1. 1950-December 31. 1959organizations	9	22	32	15	1	9	14	
2	January 1, 1950-December 31, 1959organizations dollars	9 9,288,026	46,468,604	32 11,624,663	11,501,706	:::	595 ,71 0	14 4,586,554	90,138,48
3	January 1, 1950-December 31, 1959	9,288,026 11	46,468,604 55	32 11,624,663	17		595,710 20	21	, ,
3	January 1, 1950-December 31, 1959organizations dollars WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959 Total entering conveyance systems in basinorganizations acre-feet acre-feet	11 5,838	55 214,217	50 1,561,318	, ,	 8 1,205	20 44,660		, ,
3 4 5 6 7	January 1, 1950-December 31, 1959	5,838 	55 214,217 	50 1,561,318 1 8,000	17 4,066,954 2 345,200	8 1,205	20 44,660 	21 353,566 2 30,400	4,433,47 1,447,86
3 4 5 6 7 8	January 1, 1950-becember 31, 1959	5,838 	55 214,217 51	50 1,561,318 1 8,000 	17 4,066,954 2 345,200	8 1,205 8	20 44,660 8	21 353,566 2 30,400	4,433,4° 1,447,86
34567890	January 1, 1950-becember 31, 1959	5,838 	55 214,217 51 214,217 48	50 1,561,318 1 8,000 47 1,553,318	17 4,066,954 2 345,200 17 3,721,754	8 1,205 8 1,205	20 44,660 8 44,660	21 353,566 2 30,400 11 323,166	1,447,86 1,447,86
3 4 5 6 7 8 9 9 10 11	January 1, 1950-December 31, 1959	11 5,838 11 5,838	55 214,217 51 214,217 48 198,990	50 1,561,318 8,000 47 1,553,318 44 1,513,288	17 4,066,954 2 345,200 17 3,721,754 17 3,696,754	8 1,205 8	20 44,660 8 44,660 3 19,137	21 353,566 2 30,400 11 323,166 10 286,945	1,447,86 1,447,66 2,985,61 2,540,44
3 4 5 6 7 8 9 9 10 11	January 1, 1950-December 31, 1959	11 5,838 11 5,838 10 5,718 1	55 214,217 51 214,217 48 198,990 3 15,227	50 1,561,318 1 8,000 47 1,553,318	17 4,066,954 2 345,200 17 3,721,754 17 3,696,754 1 25,000 8	8 1,205 8 1,205 8 1,205 5 580 1	20 44,660 8 44,660 3 19,137 5 25,523 13	21 353,566 2 30,400 11 323,166 10 286,945 5 36,221	1,447,86 1,447,86 2,985,61 2,540,44
3 4 4 5 6 7 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	January 1, 1950-December 31, 1959	11 5,838 11 5,838 10 5,718 1 120 	55 214,217 51 214,217 48 198,990 3 15,227 6 33,618	1,561,318 8,000 47 1,553,318 41,513,288 9 40,030 9 94,604	4,066,954 2 345,200 17 3,721,754 1 25,000 8 702,765	8 1,205 8 1,205 3 625 5 5 580 1 688 8	20 44,660 8 44,660 3 19,137 5 25,523 13 56,024 20	21 353,566 2 30,400 11 323,166 10 286,945 5 36,221 13 417,733	1,447,86 1,447,86 2,985,61 2,540,44 445,17 879,41
3 4 5 6 7 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	January 1, 1950-December 31, 1959	11 5,838 11 5,838 10 5,718 1 120 11 5,838 5,838	55 214,217 51 214,217 42,17 6 198,990 6 33,618 55 237,358	1,561,318 8,000 47 1,553,318 41,513,288 9 40,030 9 94,604 50 1,601,459	4,066,954 2 345,200 17 3,721,754 17 3,696,754 25,000 8 702,765 17 4,003,672	8 1,205 8 1,205 8 1,205 625 5 580 1 688 8 8 1,893 4 4	20 44,660 8 44,660 3 19,137 525,523 13 56,024 20 100,684	21 353,566 2 30,400 11 323,166 10 286,945 36,221 13 417,733 417,733 21 761,162	1,447,86 1,447,86 2,985,61 2,540,44 445,17 879,41 3,969,16
3 4 5 6 7 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	January 1, 1950-December 31, 1959	111 5,838	555 214,217 51 214,217 48 198,90 3 15,227 6 33,618 35,618 35,618 36,731	1,561,318 8,000 1,551,318 44 1,513,288 9 40,030 9 9,4,604 1,601,459 260,925 260,925	177 4,066,954 2 345,200 177 3,721,754 17 3,696,754 1 25,000 8 702,765 4,003,672 665,820	8 1,205 8 1,205 3 625 5 580 0 1 688 8 8 1,893 4 4 129	20 44,660 8 44,660 3 19,137 5 25,523 13 56,024 20 100,684 6 3,261	21 353,566 2 30,400	90,138,48 4,433,47 1,447,86 2,985,61 2,540,44 445,17 879,41 13,969,16 614,38
33 44 45 46 47 48 49 50 51 52 53 53 54 55 55 56 57 58 59 50 51 55 56 57 56 56 56 56 56 56 56 56 56 56 56 56 56	January 1, 1950-December 31, 1959	111 5,838	555 214,217 51 214,217 48 198,90 3 15,227 6 33,618 33,618 26,731	1,561,318 8,000 1,553,318 1,553,318 44 1,513,288 9 4,604 1,601,459 9,604 9,906 9,906 9,906 9,906 9,069	177 4,066,954 2,2 345,200 177 3,721,754 11 25,000 8 702,765 17 4,003,672 4,003,672 11 1,305,781	8 1,205 8 1,205 5 5 580 1 688 8 8 1,893 4 4 129	20 44,660 8 44,660 3 19,137 5 25,523 13 56,024 20 100,684 6 3,261	21 353,566 2 30,400 11 323,166 5 5 36,221 13 417,733 417,733 14 127,968	1,447,86 1,447,86 2,985,61 2,540,44 445,17 879,41 3,969,16 1,106,78
33 44 45 46 47 48 49 50 50 50 50 50 50 50 50 50 50 50 50 50	January 1, 1950-December 31, 1959	111 5,838	55 214,217 51 214,217 48 198,990 3 15,227 6 33,618 55 237,358 39 26,731	1,561,318 8,000 47 1,553,318 41,513,288 9,40,030 9,4,604 1,601,459 260,925 3 99,069 47 1,241,464	177 4,066,954 2 345,200 177 3,721,754 17 3,696,754 1 25,000 8 702,765 4,003,672 665,820	8 1,205 8 1,205 3 625 5 580 0 688 8 8 1,893 4 129	20 44,660 8 44,660 3 19,137 5 25,523 13 56,024 20 100,684 6 3,261	21 353,566 2 30,400	1,44,33,478 1,447,86 2,985,61 2,540,44 445,17 879,41 3,969,16 1,206,75
3 4 4 5 5 6 6 7 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	January 1, 1950-becember 31, 1959	111 5,838	214,217 .51 214,217 214,217 31 198,990 3 15,227 33,618 26,731 	1,561,318 8,000 1,553,318 44 1,553,318 9 40,030 94,604 50 1,601,459 3260,925 399,604	4,066,954 2,345,200 	8 1,205	20 44,660 8 44,660 19,137 56,024 25,523 100,684 3,261 20 97,423	21 353,566 2 30,400 11 323,166 10 286,945 5 36,221 761,162 127,968 127,968	4,433,47 1,447,86 1,447,86 2,985,61 2,540,44 445,17 879,41 1,3969,16 1,206,75 1,206,75 1,206,75
3 4 5 6 6 7 8 9 9 6 0 1 2 2 3 3 4 5 5 6 6 7 8 8 9 9 6 0 1 2 2 3 3 4 5 5 6 6 7 8 8 9 9 0 6 1 5 2 3 3 4 5 5 6 6 6 7 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	January 1, 1950-becember 31, 1959. organizations. dollars WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959 Total entering conveyance systems in basin. organizations. acre-feet From another drainage basin Prom preinage Basin number D. B. No. Prom natural sources within basin. organizations. acre-feet. Surface water. organizations. acre-feet. Ground water. organizations in the basin. organizations acre-feet. From other organizations in the basin. organizations recensing. Conveyance loss in basin. organizations acre-feet. Conveyance loss in basin. organizations. acre-feet. Conveyed to another drainage basin. organizations. acre-feet. Conveyed to another drainage basin. organizations. To drainage basin number D. B. No. Delivered for use in the basin. organizations. acre-feet. To farm irrigation water users organizations. acre-feet. To residential water users organizations. acre-feet.	111 5,838 115,838 100 5,718 110 200 111 5,838 5,99 4100 111 5,438 5,428 111 5,428	214,217 	1,561,318 8,000 1,553,318 47 1,553,318 44 1,513,288 9,40,030 94,604 1,601,459 99,063 99,063 99,063 1,241,465 46	177 4,066,954 2 245,200 17 3,721,754 125,000 8 702,765 17 4,003,672 1,305,781 1,305,781	8 1,205 8 8 1,205 8 8 1,205 8 8 1,205 8 8 8 8 8 1,893 8 1,24 9 1,24 9 1,24 8 1,24	20 44,660 8 44,660 3 19,137 25,523 56,024 20 100,684 6 3,261 20 97,423 97,423	21 353,566 20,400 323,166 286,945 36,21 13 417,733 417,733 14 127,968 21 633,194 20	4,433,47 1,447,86 2,985,61 2,540,44 445,17 879,41 3,969,16 1,206,75 1,206,75 1,206,75
3 4 5 6 6 7 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	January 1, 1950-December 31, 1959	111 5,838 11 5,838 7,808 11 10 5,718 11 12 10 11 15,838 9 410 11 15,428 11 15,428 11 15,428	214,217 	1,561,318 8,000 1,553,318 1,553,318 1,553,318 4,030 94,604 1,513,288 94,604 1,61,459 90,669 1,61,459 1,61,459 1,61,459 1,61,455 1,61,455 1,61,455 1,61,455	4,066,934 45,200 11,73 3,721,734 25,000 702,765 11,305,781 11,972,897 20,2765 11,972,897 24,733 34,444 34,744 34,745 34,	8 1,205	20 44,660 8 44,660 19,137 525,523 56,024 20 100,684 	21 353,566 30,400 11 23,166 26,945 5 36,221 417,733 21 417,733 21 127,968 21 633,134 20 629,542 21 1,880	4,433,4° 1,447,847,11 2,985,61 2,540,44 445,1° 879,41 3,969,16 1,206,72 2,148,03 2,091,43
3 4 5 6 6 7 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	January 1, 1950-December 31, 1959. organizations. dollars. WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959 Total entering conveyance systems in basin. organizations. acre-feet. From mother drainage basin. organizations. acre-feet. Delivered for the size of the basin. organizations. acre-feet. Organizations. acre-feet. Caround water. organizations. acre-feet. From other organizations in the basin. organizations. acre-feet. From other organizations in the basin. organizations. acre-feet. Conveyance loss in basin. organizations. acre-feet. Conveyance loss in basin. organizations. corpentations. Conveyance loss in basin. organizations. acre-feet. To drainage basin number. organizations. Delivered for use in the basin. organizations. To farm irrigation water users. organizations. To residential water users. organizations. To residential water users. organizations. To residential water users. organizations. acre-feet. For other use. organizations. acre-feet. Delivered to other irrigation organizations. acre-feet. Delivered to other irrigation organizations. acre-feet. Delivered to other irrigation organizations. acre-feet. Delivered to other irrigation organizations.	111 5,838 10 5,738 11 120 11 11 15,838 41 10 11 5,838 41 10 5,738 11 5,838 11 12 10 11 11 15 15 16 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18	214,217 	1,561,518 8,000 1,571,518,18 1,553,318 1,513,288 1,513,288 1,61,621,633 260,925 3,99,069 1,601,653 27,000 1,61,653,000 1,61,653,000 1,61,653,000 1,61,653,000 1,61,653,000 1,61,653,000 1,61,653,000 1,61,653,000 1,61,653,000 1,65,674	4,066,954, 2 345,200 3,721,754, 3 3,696,754, 1 25,000 4,003,672 4,003,672 1,305,781 1,305,781 1,972,897 24,733 24,733	8 1,205	20 44,660 8 44,660 3 19,137 5 529,523 100,684 3,261 97,423 96,773 11 15 55	20 353,566 30,400 11 223,166 10 286,945 36,221 761,162 177,968 127,968 127,968 127,968 127,968 127,968	4,433,4' 1,447,84 2,985,61 2,540,44 445,1' 879,41 3,969,16 1,206,72 1,206,72 2,148,00 2,091,43
3 4 4 5 6 6 7 7 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	January 1, 1950-December 31, 1959	111 5,838 100 5,718 71 1200 100 111 5,838 11 1200 111 5,838 11 11 5,438 11 11 5,438	214,217 	1,561,518 8,000 1,553,118 1,553,118 4,4 1,513,288 9,4,604 1,601,459 1,601,459 1,601,459 1,601,459 1,721,465 1,165,357 1,741,445 1,165,357 1,741,445	4,066,934 45,200 11,73 3,721,734 25,000 702,765 11,305,781 11,972,897 20,2765 11,972,897 24,733 34,444 34,744 34,745 34,	8 1,205 8 1,205 9 1,2	20 44,660 8 44,660 3 19,137 5 525,723 13 56,024 20 100,684 20 97,423 20 20 20 97,423 20 20 20 20 20 20 20 20 20 20	21 353,566 30,400 11 23,166 26,945 5 36,221 417,733 21 417,733 21 127,968 21 633,134 20 629,542 21 1,880	4,433,4' 1,447,84 2,985,61 2,540,44 445,1' 879,41 3,969,16 1,206,72 1,206,72 2,148,00 2,091,43
46 46 47 48 49 50 50 51 55 56 57 58 56 57 56 57 58 56 57 57 58 59 60 70 71 77 77 77 77 77 77 77 77 77	January 1, 1950-December 31, 1959. organizations. dollars. WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959 Total entering conveyance systems in basin. organizations. acre-feet. From mother drainage basin. organizations. acre-feet. Delivered for the size of the basin. organizations. acre-feet. Organizations. acre-feet. Caround water. organizations. acre-feet. From other organizations in the basin. organizations. acre-feet. From other organizations in the basin. organizations. acre-feet. Conveyance loss in basin. organizations. acre-feet. Conveyance loss in basin. organizations. corpentations. Conveyance loss in basin. organizations. acre-feet. To drainage basin number. organizations. Delivered for use in the basin. organizations. To farm irrigation water users. organizations. To residential water users. organizations. To residential water users. organizations. To residential water users. organizations. acre-feet. For other use. organizations. acre-feet. Delivered to other irrigation organizations. acre-feet. Delivered to other irrigation organizations. acre-feet. Delivered to other irrigation organizations. acre-feet. Delivered to other irrigation organizations.	111 5,838 100 5,718 71 1200 100 111 5,838 11 1200 111 5,838 11 11 5,438 11 11 5,438	214,217 	1,561,518 8,000 1,553,118 1,553,118 4,4 1,513,288 9,4,604 1,601,459 1,601,459 1,601,459 1,601,459 1,721,465 1,165,357 1,741,445 1,165,357 1,741,445	4,066,934 45,200 11,73 3,721,734 25,000 702,765 11,305,781 11,972,897 20,2765 11,972,897 24,733 34,444 34,744 34,745 34,	8 1,205 8 1,205 9 1,2	20 44,660 8 44,660 3 19,137 5 525,723 13 56,024 20 100,684 20 97,423 20 20 20 97,423 20 20 20 20 20 20 20 20 20 20	21 353,566 30,400 11 23,166 26,945 5 36,221 417,733 21 417,733 21 127,968 21 633,134 20 629,542 21 1,880	1,447,86 2,985,61 2,540,44 445,17 879,41 3,969,16

State Table 5.—NUMBER OF IRRIGATION ORGANIZATIONS, TYPE OF SERVICE, NEW CAPITAL INVESTMENT, AND WATER CONVEYED, BY SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUS OF 1959—Continued

		San Joaquin V San Joaqui	alley above n River		Santa	a Maria River	and Basins s	outh
Item		(11-				(11-	G)	
(For definitions and explanations, see text)			Size of or	ganization, b	y total water			
	0-999 acre-feet	1,000- 9,999 acre-feet	10,000- 99,999 acre-feet	100,000 or more acre-feet	0-999 acre-feet	1,000- 9,999 acre-feet	10,000- 99,999 acre-feet	100,000 or more acre-fee
Number of organizations	60	63	30	13	475	122	29	
All water directly from surface and ground sourcesorganizations Total water conveyed	54 17,352 16,132 53 15,242	54 191,924 164,767 51 154,974	12 355,218 281,225 9 205,423	1,923,066 1,509,752 2 198,793	436 113,838 111,214 429 106,689	66 199,870 160,591 55	7 148,514 87,698 4 57,244	276 276
To farm and residential users and other irrigation organizations Water to farm and residential users	880 10	5,483 4,310	41,881 8,658	335,938 207,278	6 3,471 1,054	18,016 6,901	3 14,796 15,658	
To other irrigation organizations onlyorganizations acre-feet Part of water from other organizationsorganizations			25,263 R	767,743		15,478 29	20	276
Total water conveyed	1,648 1,178 470 1,648 3	15,339 5,381 9,958 14,545 4 14,545	308,025 141,931 166,094 271,009 8 271,009	437,801 124,395 313,406 289,130 2 167,964	8,684 5,404 3,280 8,343 17 6,987	113,224 70,001 43,223 100,566 22 74,505	497,482 274,746 222,736 433,327 8 148,158	480 282 197 446
To farm and residential users and other irrigation organizations. Water to farm and residential users	1,648	14,543	271,009	120,256	3 957	7 19,541	11 192,543	446
Water to other irrigation organizationsacre-feet To other irrigation organizations onlyorganizations acre-feet	•••	:::		910	399	6,520	82,922 1 9,704	
All of water from other organisations organisations Total water conveyed	1,450 1,450 2 1,450	5 33,713 27,951 5 27,951	10 239,106 205,076 10 205,076	2 249,975 249,975 2 249,975	18 7,383 7,025 16 6,490	27 83,417 79,590 16 36,971	28,108 28,108 	110
To farm and residential users and other irrigation organizations. Water to farm and residential users. Safer to other irrigation organizations. acre-feet.		27,951	205,076	249,975	6,490 2 473 62	7 19,618 11,831		
To other irrigation organizations onlyorganizations acre-feet No water conveyed	1				1	11,170	28,108 	11
Organizations reporting 00 water from other sources used on land served by the organization	48 5,266 4,999	31 25,588 25,091	337,277 313,496	3 291,482 279,058	415 73,463 41,762	93 180,274 93,415	19 113,810 74,730	4:
Organizations reporting water from other sources used on land served by the organization	7,154 4,044	32 219,984 112,921	18 365,799 297,304	9 441,089 427,484	58 10,338 8,356	22 64,488 20,902	7 265,723 53,608	
Expenditures for additional new works and equipment for irrigation and drainage, January 1, 1950-December 31, 1959	26 144,924	36 625,699	21 25,440,731	11 76,944,056	160 15,547,261	68 100,307,166	17 15,530,630	
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959 Total entering conveyance systems in basinorganizations scre-feet	59 18,530	63 197,305	30 497,149	2,047,461	474 119,242	122 269,871	29 423,260	68
From another drainage basin	57		20	861,551	 456	95	26	57
acre-feet Surface water	18,530 23 10,117	197,305 48 177,416	497,149 15 359,246	1,185,910 10 1,112,888	119,242 24 6,767	269,871 27 62,073	423,260 17 154,834 23	10
Ground water. organizations. Ground water. organizations are feet. From other organizations in the basin organizations receiving. Greefeet.	36 8,413 5 1,920	13 19,889 9 43,671	137,903 18 405,200	73,022 5 563,381	440 112,475 38 10,663	89 207,798 56 126,640	268,426 22 250,844	10
Total leaving conveyance systemsorganizationsacre-feet	59 20,440 22	63 236,666 51	30 868,428 23	13 1,634,911 10	474 128,390 64	122 344,611 66	29 537,712 24	44
Conveyance loss in basin	1,220	33,713	144,661	312,559 1 142,080	1,649 	20,202	34,522 	1
To drainage basin number	59 19,220	62 202,953	30 723,767	1,180,272	474 126,741	117 324,409	27 503,190	44
To farm irrigation water usersorganizations	19,051 6	62 202,362 3 591	720,618 4	1,072,926	473 116,910 95	115 222,717 63 66,130	26 272,984 13 139,757	2
For other use	169 1		2,771 1 378 3	107,346 7	8,157 14 1,674 11	24 35,562 29	90,449 17	1
average delivery of irrigation water per acre, 1959	10	4,310	33,921	975,931	1,515	51,900	136,392	39
Per acre irrigated, as reported by irrigation organization: All organizationsacre-feet	2.1	1.5	1.2	1.7	2.3	1.9	2.8	

COLORADO

(121)

IRRIGATION OF AGRICULTURAL LANDS

State Table 1.-NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS.

=				Color	ado River abo	ve Lees Ferry	excluding Gr	een and Gumnis	son Rivers (I	<i>I-</i> D)
						Colorado Ri	ver direct		San Jua	n River
	Item (For definitions and explanations, see text)	The State	Gulf of California, total	Total	Total	Below Cameo	Cameo to Botsero	Above Dotsero	Total	San Juan River direct
						(la)	(1b)	(le)		(2a)
1 2	Total acres irrigated in Census year	2,684,757 2,943,895	739,000 806,168	405,000 448,169	145,000 156,351	70,000 70,540	41,000 48,798	34,000 37,013	122,000 148,502	20,000 20,088
3 4	Irrigation organizationsorganizations 1959	1,933 2,302	934 1,042	451 470	105 109	11 10	69 79	25 20	140 149	29 32
5	Service area, 1959: Farm area reported served by organizationsacres 1959	3,040,053	783,487	434,848	156,843	87,255	47,798	21,790	165,341	23,343
6	Farm area reported irrigated by organizationsacres 1959	2,669,677	691,255	383,090	152,971	85,412	46,339	21,220	139,045	16,865
7	Water users served, totalwater users 1959	43,642	15,671	10,121	6,743	5,906	765	72	2,155	125
8	Farm irrigation water userswater users 1959	35,051	12,156	7,040	3,771	2,946	753	72	2,103	125
9	Residential water userswater users 1959	8,449	3,495	3,071	2,966	2,960	6		49	
10	Other water userswater users 1959	142	20	10	6		6		3	
	LAND IRRIGATED BY SOURCE OF WATER, 1959									
11	Cround water sourcesacres	500,174	7,000	3,000	1,000		1,000	34,000	122,000	20,000
12	Surface water sourcesacres	2,184,583	732,000	402,000	144,000	70,000	40,000	34,000	122,000	20,000
13 14	WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959 Total entering conveyance systems in basin	1,906 7,705,684	921 3,510,202	446 2,050,233	105 1,167,987	11 569,307	69 190,886	25 407 ,7 94	138 407,208	29 68,675
15 16	From another drainage basinorganizations	4,038	1 4,038					:::	9,000	1 3,037
17	From drainage basin numberD. B. No									IV-D-2f
18 19	From natural sources within basinorganizations acre-feet	1,701 7,701,646	899 3,506,164	433 2,050,233	100 1,167,987	6 569,307	69 190,886	25 407,794	133 398,208	27 65,638
20 21	Surface waterorganizations	1,692 7,670,472	897 3,505,583	433 2,049,816	100 1,167,987	6 569,307	69 190,886	25 407,794	133 398,208	27 65,638
22 23	Ground waterorganizations acre-feet	24 31,174	4 581	2 417	:::				:	
24	From other organizations in the basin organizations receiving	295	61	41	7	7			8	1
25 26	acre-feet Total leaving conveyance systemsorganizations	1,432,394	214,392	174,000	142,287	142,287			27,716	3,037
27	acre-feet Conveyance loss in basinorganizations	7,705,684	3,510,202	2,050,233	1,167,987	569,307	190,886	407,794	407,208	68,675
29	acre-feet	1,433,931	572,093	334,104	218,839	11 172,146	25,489	21,204	58,769	12,690
30 31	Conveyed to another drainage basinorganizations acre-feet	15,427	334,612	7 335,904	287,181		•••	287,181	1,903	:::
32	To drainage basin numberD. B. No	•						(1)		
33 34	Delivered for use in the basinorganizations acre-feet	1,893 6,256,326	912 2,603,497	438 1,380,225	103 661,967	397,161	69 165,397	23 99,409	137 346,536	28 55,985
35 36	To farm irrigation water usersorganizations acre-feet	1,888 5,943,099	912 2,457,456	438 1,241,904	103 538,955	11 274,470	69 165,076	23 99,409	137 344,087	28 55,985
37 38	To residential water usersorganizations acre-feet	130 167,474	39 138,200	29 134,582	7 122,746	122,691	2 55		8 176	
39 40	For other useorganizations acre-feet	50 145,753	7,841	6 3,739	1 266		1 266	:::	2,273	:::
41 42	Uelwered to other irrigation organizations delivering	118 1,432,394	20 214,392	10 174,000	3 142,287	3 142,287			27,716	1 3,037
43	Average delivery of irrigation water per acre irrigated as reported by organizationsacre-feet	2.2	3.6	3.2	3.5	3,2	3.6	4.7	2.5	3.3
44	NEW CAPITAL INVESTMENT, 1950-1959 Expenditures for additional new works and equipment for irrigation and drainage, Jan. 1, 1950-bec. 31, 1959organizations dollars dollars	903	545	245	53	9	30	14	63	10
45	dollars	59,837,605	22,442,145	21,393,082	18,935,998	2,247,336	57,498	16,631,164	1,361,605	121,076

^{118,601} acre-feet to D. B. No. VI-E-6, 268,580 acre-feet to D. B. No. VI-E-7.

23,037 acre-feet to D. B. No. IV-D-2a, 242 acre-feet to D. B. No. IV-D-2a, 1,661 acre-feet to D. B. No. IV-D-2b.

BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950

					-Continued	Rivers (IV-D)-	and Gunnison	xcluding Green	olorado River e	Cc			
							Dolores River			inued	an River—Cont	San Ju	
	Frazer River	Blue River and Muddy Creek	Eagle River	Roaring Fork	Plateau Creek	San Miguel River	Dolores River direct	Total	Los Pinos River	Animas River	La Plata River	Mancos River	McElmo Creek
	(10)	(8, 9)	(7)	(6)	(5)	(4b)	(4a)		(2f)	(2e)	(2d)	(2c)	(2b)
	10, 10,	22,000 21,090	14,000 15,415	38,000 31,369	25,000 29,125	19,000 25,565	10,000	29,000 36,145	36,000 40,145	18,000 21,057	4,000 16,519	13,000 12,853	31,000 37,840
8		5 1	24 30	64 60	82 84	13 16	10 16	23 32	24 28	27 30	19 23	29 29	13 10
750	6,	3,685	7,153	30,777	28,419	27,300	8,580	35,880	43,304	26,587	15,195	14,909	42,003
250	5.	2,685	7,153	30,707	22,079	19,810	3,390	23,200	39,623	22,752	8,285	9,712	41,808
48	-,	10	85	344	401	307	28	335	618	390	99	184	739
48		10	84	337	353	306	28	334	604	363	99	174	738
			1	7	48				13	27		9	
			• • •	• • • •		1		1	1		•···	1	1
				1,000			1,000	1,000					
000	10,	22,000	14,000	37,000	25,000	19,000	9,000	28,000	36,000	18,000	4,000	13,000	31,000
8 910	23,	20,490	24 41,588	64 238,279	80 71,278	13 75,052	10 13,441	23 88,493	22 136,307	27 74,648	19 10,301	28 27,113	14 102,201
:::		:::		:::			:::	:::	:::		:::	9,000	9,000
												IV-D-4a	IV-D-2c
8 910	23.	20,490	24 41,588	64 238,279	76 71,278	13 75,052	10 13,441	23 88,493	19 136,307	27 74,648	19 10,301	28 18,113	13 93,201
8	23,	5 20,490	24 41,588	64 237,949	76 71,191	13 75,052	10 13,441	23 88,493	19 136,307	27 74,648	19 10,301	28 18,113	13 93,201
:::		:::	•••	1 330	1 87	•••		:::	:::	:::			:::
:::		:::			26 3,997				23,511	:::	2 898	1 270	
910	23,	5 20,490	24 41,588	64 238,279	80 71,278	13 75,052	10 13,441	23 88,493	22 136,307	27 74,648	19 10,301	28 27,113	102,201
8 547	2,	5 3,421	24 3,379	60 26,037	74 8,912	13 11,771	9 429	22 12,200	16 22,099	27 12,062	18 1,543	27 1,659	12 8,716
:::				2 45,528	1,292		9,000	9,000	3 4,940			9,000	
				VI-B-lc	IV-F-1		IV-D-2c		(²)			IV-D-2b	
8 363	21,	5 17,069	24 3B,209	62 166,714	77 61,074	13 63,281	9 4,012	22 67,293	22 109,268	27 62,586	18 8,758	28 16,454	14 93,485
8 :	21,	5 17,069	24 38,186	62 159,220	77 56,931	13 62,081	9 4,012	66,093	22 108,968	27 62,510	18 8,758	28 15,914	14 91,952
		:::	1 23	7,494	11 4,143				2 60	2 76	:::	4 40	
		:::	:::	:::	::: }	1 1,200	:::	1,200	1 240	:::	:::	1 500	1,533
:::		:::		:::	3 3,997	:::	:::	:::	23,511		1 898	1 270	
4.1		6.4	5.3	5.2	2.6	3.1	1.2	2.8	2.8	2.7	1.1	1.6	2.2
3 000	4,0	3 26,800	20 65,501	34 652,579	52 84,026	10 242,573	7 20,000	17 262,573	18 430,777	12 52,050	•	15 22,510	9 735,192

IRRIGATION OF AGRICULTURAL LANDS

State Table 1.-NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS.

			•	Green Riv	er (IV-E)		
						Yampa River	
	Item (For definitions and explanations, see text)	Total	Green River direct	White River	Total	Yampa River direct	Elk and Little Snake Rivers
			(1)	(4)		(8a)	(8b, c)
1 2	Total acres irrigated in Census year1959	86,000 88,602	1,000 691	27,000 29,911	58,000 58,000	45,000 45,172	13,000 12, 8 28
3	Irrigation organizationsorganizations 1959	125 129		27 30	98 99	81 76	17 23
5	Service area, 1959: Farm area reported served by organizations	74,370		19,716	54,654	48,695	5,959
6	Farm area reported irrigated by organizationsacres 1959	71,264		19,450	51,814	45,855	5,959
7	Water users served, totalwater users 1959	503		129	374	321	53
8	Farm irrigation water userswater users 1959	503		129	374	321	53
9	Residential water userswater users 1959						
10	Other water userswater users 1959						
	LAND IRRIGATED BY SOURCE OF WATER, 1959						
11	Ground water sourcesacres	2,000	•••	1,000	1,000	1,000	***
12	Surface water sourcesacres	84,000	1,000	26,000	57,000	44,000	13,000
13	WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959 Total entering conveyance systems in						
14	basinorganizations acre-feet	124 313,959		98,479	97 215,480	80 184,068	17 31,412
15 16	From another drainage basinorganizations acre-feet	4,038	:::		4,038	:::	4,038
17	From drainage basin numberD. B. No						IV-E-8b
18 19	From natural sources within basinorganizations acre-feet	123 309,921		27 98,479	96 211,442	80 184,068	16 27,3 7 4
20 21	Surface waterorganizations acre-feet	123 309,921		27 98,479	96 211,442	80 184,068	16 27,374
22 23 24	Ground waterorganizations				***	:::	:::
25	From other organizations in the basinorganizations receiving acre-feet						:::
26 27	Total leaving conveyance systemsorganizations acre-feet	124 313,959		27 98,479	97 215,480	80 184,068	17 31,412
28 29	Conveyance loss in basinorganizations acre-fest	122 43,453		11,579	95 31,874	79 26,939	16 4,935
30 31	Conveyed to another drainage basinorganizations acre-feet	•••	:::	:		:::	:::
32	To drainage basin number						
33 34	Delivered for use in the basinorganizations acre-feet	124 270,506		27 86,900	97 183,606	80 15 7 ,129	17 26,477
35 36	To farm irrigation water usersorganizations acre-feet	270,506		86,900	97 183,606	80 157,129	17 26,477
37 38	To residential water usersorganizations acre-feet	:::					
39 40	For other useorganizations acre-feet	:::	:::		• • • • • • • • • • • • • • • • • • • •	:::	
41	Velivered to other virigation organizations organizations delivering	li	İ				ļ
42	acre-feet	:::		:::	::::	:::	:::
43	Average delivery of irrigation mater per acre irrigated as reported by organizationsacre-feet	3.8		4.5	3.5	3.4	4.4
44	NEW CAPITAL INVESTMENT, 1950-1959 Expenditures for additional new works and equipment for irrigation and drainage, Jan. 1, 1950-bec. 31, 1959organizations	105		2,1	43		12.
45	dollars	331,245		77,440	253,805	235,178	18,627

1,292 acre-feet from D. B. No. IV-D-5, 256 acre-feet from D. B. No. IV-F-3. 26,790 acre-feet from D. B. No. V-C-11, 26,990 acre-feet from D. B. No. V-C-1c. 6,790 acre-feet to D. B. No. V-C-13.

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BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950-Continued

		Gunn	ison River (IV	-F)			Rio Grande above Fort Cuitman, Texas (V-C)							
Total	Gunnison River direct	Uncompangree River	North Fork	Smith Fork	Tomichi Creek	Slate River	Total	Rio Grande direct	Costilla and Trinchera Creek	San Antonio and Comejos Rivers	Lajara and Alamosa Creeks	San Luis Lake and San Luis Creek Direct		
	(1)	(2)	(3)	(4)	(5)	(6)		(1)	(10, 12)	(11)	(13)	(14)		
248,000 269,397	69,000 88,678	111,000 103,735	21,000 25,501	16,000 18,408	27,000 27,396	4,000 5,679	419,000 592,645	176,000 253,212	31,000 41,421	55,000 75,072	106,000 136,521	51,000 86,419	1 2	
359 445	182 234	74 76	53 77	17 20	27 32	12 10	203 304	64 99	31 39	68 97	43 71	3 8	3 4	
274,269	84,267	111,344	42,860	22,583	10,062	3,153	573,350	268,393	52,575	96,114	155,088	1,180	5	
236,901	63,356	98,439	39,684	22,307	9,962	3,153	419,622	217,916	30,947	84,605	84,974	1,180	6	
5,047 4,613	1,473	2,204	1,073	194 193	77	26 26	3,425 3,278	1,222	425 425	1,033	723 717	22	7 8	
424	23	300	101	170		20	147	1,222	42)	141	6		9	
10	2		7	1									10	
2,000	1,000				1,000		172,000	92,000	8,000	6,000	42,000	24,000	11	
246,000	68,000	111,000	21,000	16,000	26,000	4,000	247,000	84,000	23,000	49,000	64,000	27,000	12	
352 1,147,302	176 616,011	74 597,609	52 155,025	17 50,559	27 68,585	12 27,513	200 693,042	62 356,575	31 71,823	67 187,333	43 109,854	2,070	13 14	
1,292	1,548	3 333,436	29,160	1 5,148				1 833	:::	:::	33 ,78 0		15 16	
	(1)	IV-F-1	IV~F-2	IV-F-1				V-C-11			(2)		17	
1,146,010	173 614,463	68 264,173	48 125,865	16 45,411	27 68,585	12 27,513	188 693,042	355,742	28 71,823	187,333	76,074	2,070	18 19	
341 1,145,846	171 614,299	68 264,173	48 125,865	16 45,411	27 68,585	12 27,513	184 677,934	53 355,742	28 71,823	66 177,379	70,920	2,070	20 21	
2 164	2 164	:::	:::	:::	:::		15,108	:::	:::	9,954	7 5,154		22 23	
20 40,392	15,660	19,631	5,101	:::			17 56,176	23,124	6,352	26,700	:::	:::	24 25	
352 1,147,302	176 616,011	74 597,609	52 155,025	17 50,559	27 68,585	12 27,513	200 693,042	62 356,575	31 71,823	67 187,333	43 109,854	2,070	26 27	
334 194,536	165 46,170	72 104,495	.48 23,859	15 3,741	27 12,886	11 3,385	185 137,299	56 76,245	30 24,406	60 16,644	40 19,726	3 278	28 29	
:::	338,584	29,160	1 256					3 26,990	:::	7,623			30 31	
	(3)	IV-F-3	IV-F-1	•••				V-C-13		(4)			32	
351 952,766	173 231,257	74 463,954	51 130,910	17 46,818	27 55,699	12 24,128	199 555,743	253,340	31 47,417	163,066	90,128	1,792	33 34	
351 945,046	173 230,003	74 461,054	130,224	17 43,938	27 55,699	12 24,128	199 554,093	61 253,340	31 47,417	65 161,566	43 89,978	1,792	35 36	
10 3,618	7 414	2,900	2 304			:::	1,650	:::	:::	1,500	1 150	:::	37 38	
4,102	1 840	:::	3 382	2,880		:::	•••	:::	:::		:::	:::	39 40	
10 40,392	15,660	3 19,631	5,101	•••		:::	12 56,176	2 23,124	6,352	26,700	:::	:::	41 42	
4.0	3.6	4.7	3.3	2.0	5.6	7.7	1.3	1.2	0.9	1.9	1.1	1.5	43	
195 717,818	99 203,872	66 375,406	17 88,775	7 38,915	10,350	2 500	104 2,996,833	28 343,735	170,400	43 2,438,820	28 43,878		44 45	

IRRIGATION OF AGRICULTURAL LANDS

State Table 1.-NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS.

			Arkansas River (VI-B)							
					Arkansas R	iver direct				
	Item (For definitions and explanations, see text)	Mississippi River total	Total	Total	Below John Martin Dam	John Martin Dam to Pueblo	Above Pueblo			
					(la)	(1b)	(le)			
1 2	Total acres irrigated in Census year	1,527,000 1,545,082	445,000 461,146	340,000 352,450	130,000 122,144	170,000 161,147	40,000 49,159			
4	Irrigation organizationsorganizations 1959 1949	800 959	319 427	172 240	32 38	53 96	92 109			
5	Service area, 1959: Farm area reported served by organizations	1,683,216	475,714	394,239	155,660	192,320	46,259			
6	Farm area reported irrigated by Organizationsacres 1959	1,558,800	431,485	376,353	152,959	186,825	36,569			
7	Water users served, totalwater users 1959	24,546	8,179	7,034	1,135	2,779	3,120			
8	Farm irrigation water userswater users 1959	19,617	6,905	5,783	1,135	2,645	2,003			
9	Residential water userswater users 1959	4,807	1,205	1,184		69	1,115			
10	Other water userswater users 1959	122	69	67		65	2			
	LAND IRRIGATED BY SOURCE OF WATER, 1959									
11	Cround water sourcesacres	321,000	69,000	41,000	16,000	24,000	1,000			
12	Surface water sourcesacres	1,206,000	376,000	299,000	114,000	146,000	39,000			
1.3	WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959 Total entering conveyance systems in									
14	basinorganizations acre-feet	792 3,835,149	1,313,345	1,190,823	32 409,473	760,784	91 330,568			
15 16	From another drainage basinorganizations acre-feet	332,709	45,528	71,219	181,290	145,403	54,528			
17	From drainage basin numberD. B. No				VI-B-1b	(1)	(²)			
18 19	From natural sources within basinorganizations acre-feet	619 3,502,440	273 1,267,817	131 1,119,604	228,183	34 615,381	89 276,040			
20 21	Surface waterorganizations acre-feet	616 3,486,955	271 1,264,822	129 1,116,609	228,183	612,791	88 275,635			
22	Ground waterorganizations acre-feet	11 15,485	2,995	2,995		2,590	405			
24 25	From other organizations in the basinorganizations receiving acre-feet	217 1,161,826	46 205,667	39 184,613	21 134,610	17 47,753	2,250			
26 27	Total leaving conveyance systemsorganizations acre-feet	792 3,835,149	317 1,313,345	170 1,190,823	32 409,473	52 760,784	91 330 ,5 68			
28 29	Conveyance loss in basinorganizations acre-feet	708 724,539	293 203,088	162 179,977	31 63,841	50 83,554	84 32,58 2			
30 31	Conveyed to another drainage basinorganizations acre-feet	13,524		18,430		3 199,720	128,712			
32	To drainage basin numberD. B. No					(3)	VI-B-1b			
33	Delivered for use in the basinorganizations acre-feet	782 3,097,086	317 1,110,257	170 992,416	32 345,632	52 477,510	88 169,274			
35 36	To farm irrigation water usersorganizations acre-feet	2,931,550	317 1,029,362	170 913,058	32 345,632	52 404,069	87 163,357			
37 38	To residential water usersorganizations acre-feet	89 27,624	14 4,169	10 4,016		232	3,784			
39 40 41	For other useorganizations acre-feet	39 137,912	76,726	75,342	:::	73,209	2,133			
41	Uelwered to other impation organizations delivering organizations delivering acre-feet	86 1,161,826	14 205,667	9 184,613	5 134,610	3 47,753	2,250			
43	Average delivery of irrigation water per acre irrigated as reported by organizationsacre-feet	1.9	2.4	2.4	2.3	2.2	4.5			
44	NEW CAPITAL INVESTMENT, 1950-1959 Expenditures for additional new works and equipment for irrigation and draftnage, Jan. 1, 1950-Dec. 31, 1959	258 34,398,627	121 t 2,304,051	67 2,128,013	5 27.522	24 1,463,526	41 636,965			

17,352 acre-feet from D. B. No. VI-B-6, 128,712 acre-feet from D. B. No. VI-B-lc, 9,339 acre-feet from D. B. No. VI-B-8. 245,528 acre-feet from D. B. No. IV-D-6, 9,000 acre-feet from D. B. No. VI-B-6, 8,100 acre-feet to D. B. No. VI-B-6.

BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950-Continued

		Arl	mansas River (T-B)—Continu	ed					Platte R Plat	iver excludin te River (VI-	g South
Cimarron River	Purgatorie River	Total	Huerfano River	Cucharas River	St. Charles River	Fountain Creek	Grape Creck	Missouri River, total	Missouri River excluding Platte River: Republican River (VI-C)	Total	North Platte River, above Alcova Dam	Larmie River
(3)	(6)		(7a)	(76)	(8)	(9)	(10)				(3d)	(5a)
21,000	24,000	24,000	16,000	8,000	4,000	12,000	20,000	1,082,000	35,000	134,000	130,000	4,00
264	32,565 44	27 , 723	19,731	7,992	5,775	16,666	25 ,7 03	1,083,936	6,517	147,713 71	141,953	5,76
	45	96	62	35	18	8	24	532	2	81	78	
	43,402	21,614	15,469	6,145	4,914	7,380	4,165	1,207,502	3,393	65,265	65,265	
	20,175	19,528	14,673	4,855	4,639	6,865	3,925	1,127,315	3,393	64,865	64,865	
	400	294	192	102	304	103	44	16,367	23	169	169	
	379	292	192	100	304	103	44	12,712	23	169	169	
	21			***		***		3,602			•••	
	***	2 .	***	2				53				
21,000		2,000	2,000			4,000	1,000	252,000	32,000	1,000	1,000	
	24,000	22,000	14,000	8,000	4,000	8,000	19,000	830,000	3,000	133,000	129,000	4,00
	44 70,443	65 37,770	37 23,613	28 14,157	19 23,721	6 18,033	18 16,676	475 2,521,804	21,080	71 356,632	68 334,668	21,9
	10,330	:::			8,100	::: }		2 287,181		:::	:::	
	VI-8-1b				VI-B-lb							
	36 : 60,113	65 37,770	37 23,613	28 14,157	18 15,621	6 18,033	18 16,676	346 2,234,623	21,080	71 356,632	68 334,668	21,9
	36 60,113	65 37,770	37 23,613	28 14,157	18 15,621	6 18,033	18 16,676	345 2,222,133	21,080	71 356,632	68 334,668	21,9
			:::					6 12,490	***			
	7 21.054			***				171 956,159				
	44 70,443	65 37,770	37 23,613	28 14,157	19 23,721	18,033	18 16,676	475 2,521,804	21,080	71 356,632	68 334,668	21,9
	42 8,687	54 4,221	31 2,669	23 1,552	18 3,303	6 4,397	15 2,503	415 521,451	2,520	66 54,649	66 54,649	
	7,352				9,339		9,000	2	1 1	3 21,964		
	VI-B-1b				VI-B+1b		VI-8-1c	13, 524	10,032	21,964		21,90 VI-E
	54,404	65 33,549	37 20,944	28 12,605	19 11,079	13,636	17 5,173	465 1,986,829	8,528	68 280,019	68 280,019	
	54,251	65	37	28 11,221	11,079 19 11,079	13,636	17 5,173	460 1,902,188	8,528	68 280,019	68 280,019	
	4							75				
	153	1		1				23,455				
		1,384		1,384				61,186				
	21,054		:::					956,159				::
	2.7	1.6	1.4	2.3	2,4	2.0	1.3	1.7	2.5	4.3	4.3	
:::	26 121,818	24 19,727	11 8,125	13 11,602	2 16,929	1 17,416	3 148	137 32,094,576	2,100	35 64,605	33 38,590	26,01

State Table 1.-NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950-Continued

		_	South Platte Ri	ver above Gaging Sta	tion near Paxton, Ne	oraska (VI-E)	
				South Platte R	iver direct		
	Item (For definitions and explanations, see text)	Total	Total	Below Sublette	Sublette to South Platte	Above South Platte	Upper Beaver Creek
				(la)	(1ь)	(1c)	(3)
1 2	Total acres irrigated in Census year1959	913,000 929,706	458,000 458,100	207,000 200,866	208,000 212,472	43,000 44,762	15,000 9,834
3 4	Irrigation organizationsorganizations 1959	409 452	133 163	56 77	77 82	3 7	1 2
5	Service area, 1959: Farm area reported served by organizationsacres 1959	1,138,844	561,965	238,648	321,617	1,700	(D)
6	Farm area reported irrigated by organizationsacres 1959	1,059,057	523,039	229,454	291,885	1,700	(D)
7	Water users served, totalwater users 1959	16,175	6,887	1,850	5,029	8	(D)
8	Farm irrigation water userswater users 1959	12,520	5,735	1,850	3,877	8	(D)
9	Residential water userswater users 1959	3,602	1,131		1,131		
10	Other water userswater users 1959	53	21		21		• • •
	LAND IRRIGATED BY SOURCE OF WATER, 1959						
11	Ground water sourcesacres	219,000	151,000	83,000	68,000		10,000
12	Surface water sources	694,000	307,000	124,000	140,000	43,000	1
14	acre-feet	2,166,056	1,112,885	500,710	735,463	3,420	(D)
15 16	From another drainage basinorganizations acre-feet	5 309,145	12 172,735	126,708	172,735	:::	(D)
17	From drainage basin numberD. B. No			VI-E-lb	(1)		VI-E-la
18 19	From natural sources within basinorganizations acre-feet	275 1,856,911	75 940,150	30 374,002	562,728	3,420	•••
20 21	Surface waterorganizations acre-feet	274 1,844,421	75 929,510	367,002	559,088	3 3,420	•••
22 23	Ground waterorganizations acre-feet	12,490	10,640	7,000	3,640	:::	
24 25	From other organizations in the basin	171 956,159	56 249,093	24 83,885	32 165,208		
26 27	Total leaving conveyance systemsorganizations acre-feet	404 2,166,056	131 1,112,885	55 500,710	76 735,463	3,420	(D)
28 29	Conveyance loss in basinorganizations acre-feet	346 464,282	120 302,652	54 156,272	64 145,945	3 435	(D)
30 31	Conveyed to another drainage basinorganizations acre-feet	3,492	3 9,490	8,510	127,688		
32	To drainage basin numberD. B. No			(²)	(3)		
33 34	Delivered for use in the basinorganizations acre-feet	394 1,698,282	127 800,743	55 335,928	70 461,830	2,985	(D)
35 36	To farm irrigation water usersorganizations acre-feet	389 1,613,641	125 751,093	55 335,928	68 412,180	2,985	(D)
37 38	To residential water usersorganizations acre-feet	75 23,455	18 9,387		18 9,387		
39 40	For other useorganizations acre-feet	61,186	14 40,263		40,263	:::	
41 42	Uelivered to other imagation organizations delivering organizations organizations delivering occupantions	72 956,159	32 249,093	7 83,885	25 165,208		
43	Average delivery of irrigation water per acre irrigated as reported by organizationsacre-feet	1.5	1.4	1.5	1.4	1.8	(D)
44	Expanditures for additional new works and equipment for irrigation and drainage, Jan. 1, 1950-Dec. 31, 1959	101 32,027,871	41 811,452	14 130,448	27 681,004	:::	

D Data not shown to avoid disclosure of information for individual organizations. \$\frac{1}{2}\$,461 acre-feet from D. B. No. VI-E-8, 38,628 acre-feet from D. B. No. VI-E-9, 6,208 acre-feet from D. B. No. VI-E-10, 66,923 acre-feet from D. B. No. VI-E-10, 8,215 acre-feet from D. B. No. VI-E-10, 3980 acre-feet to D. B. No. VI-E-10, 8,708 acre-feet to D. B. No. VI-E-10, 8,708 acre-feet to D. B. No. VI-E-10, 8,708 acre-feet to D. B. No. VI-E-10, 8,708 acre-feet to D. B. No. VI-E-10, 8,708 acre-feet to D. B. No. VI-E-10, 8,708 acre-feet to D. B. No. VI-E-10, 8,708 acre-feet to D. B. No. VII-E-10, 8,708

State Table 1.-NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950-Continued

			South Platte Ri	ver above Gaging	Station near Paxt	on, Nebraska (VI-	E)—Continued	
	Item (For definitions and explanations, see text)	Upper Bijou Creek	Crom Creek	Cache La Poudre River	Thompson River	St. Vrain and Boulder Creeks	Clear Creek	Bear Creek
		(4)	(5)	(6)	(7)	(8)	(9)	(10)
1 2	Total acres irrigated in Census year1959	27,000 18,688	9,000 7,130	204,000 220,395	73,000 62,833	114,000 125,749	8,000 18,998	5,000 7,97
3	Irrigation organizationsorganizations 1959			71 74	57 47	118 129	42 43	1
5	Service area, 1959: Farm area reported served by organizationsacres 1959			234,480	109,257	198,610	25,972	(D
6	Farm area reported irrigated by organizationsacres 1959			225,580	105,123	178,483	19,272	(D
7	Water users served, totalwater users 1959			2,357	1,178	2,955	2,652	(D
8	Farm irrigation water userswater users 1959			2,196	1,131	2,444	883	(D
9	Residential water userswater users 1959			159	46	495	1,758	(D
10	Other water userswater users 1959			2	1	16	11	(D
	LAND IRRIGATED BY SOURCE OF WATER, 1959							
11	Ground water sourcesacres	23,000	3,000	28,000	2,000	2,000		
1.2	Surface water sourcesacres	4,000	6,000	176,000	71,000	112,000	8,000	5,00
13	WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959 Total entering conveyance systems in basinorganizations acre-feet			70 53 8, 573	56 472,828	118 308,670	42 101,300	(D
15 16	From another drainage basinorganizations			6 192,087	284,101	46.569	1 980	::
17	From drainage basin numberD. B. No			(1)	(2)	VI-E-7	VI-E-1b	
18	From natural sources within basinorganizations			44	32	102	19	
19 20	acre-feet Surface waterorganizations			346,486	188,727	262,101	100,320	(D)
21	acre-feet			346,336	188,727	260,401	100,320	
22 23	Ground waterorganizations			1 150		1,700		
24 25	From other organizations in the basinorganizations receiving			34 239,362	26 370,550	31 82,275	24 14,879	
26 27	Total leaving conveyance systemsorganizations acre-feet			70 53 8, 573	56 472,828	118 308,670	101,300	(D)
28 29	Conveyance loss in basinorganizations			51 93,105	39 28,267	100 25,593	42 10,724	(D)
30 31	Conveyed to another drainage basinorganizations acre-feet			66,923	243,606	5 30,982	5 38,628	(D)
32	To drainage basin number			VI-E-1b	(3)	(4)	VI-E-1b	VI-E-13
33 34	Delivered for use in the basinorganizations acre-feet	:::	:::	65 378,545	51 200,955	117 252.095	42 51,948	(D)
35 36	To farm irrigation water usersorganizations acre-feet			65 374,844	50 198,556	116 241,787	41 33,708	(D)
37 38	To residential water usersorganizations			6 503	4 721	15	34 10,875	(D)
39	For other useorganizations			2	1	10	5	
40	acre-feet Pelivered to other imagina	***	•••	3,198	1,678	8,356	7,365	(D)
42	organizations delivering acte-feet			13 239,362	15 370,550	82,275	6 14,879	
43	Average delivery of irrigation water per acre irrigated as reported by organizationsacre-feet			1.7	1.9	1.4	1.7	(D)
	NEW CAPITAL INVESTMENT, 1950-1959							
44	Expenditures for additional new works and equipment for irrigation and drainage, Jan. 1, 1950-Dec. 31, 1959			15 1,067,419	14 27,988,187	34 2,076,598	4 84,215	

D Data not shown to avoid disclosure of information for individual organizations. \$\frac{1}{2}\frac{1}{2}\text{,664 acre-feet from D. B. No. VI-D-5a, 18,601 acre-feet from D. B. No. IV-D-1c, 151,522 acre-feet from D. B. No. VI-E-6, 265,800 acre-feet from D. B. No. IV-D-1c. \$\frac{1}{2}\text{,522 acre-feet to D. B. No. VI-E-6, 46,569 acre-feet to D. B. No. VI-E-6, 15,521 acre-feet to D. B. No. VI-E-6, 46,569 acre-feet to D. B. No. VI-E-6, 15,521 acre-feet to D. B. No. VI-E-6, 46,569 acre-feet to D. B. No. VI-E-6, 15,521 acre-feet to D. B. No. VI-E-6, 46,569 acre-feet to D. B. No. VI-E-6, 15,521 acre-feet to D. B. No. VI-E-6, 46,569 acre-feet to D. B. No. VI-E-6, 15,521 acre-feet to D. B. No. VI-E-6, 46,569 acre-feet to D. B. No. VI-E-6,569 acre-

State Table 2.-NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950

	ltem (For definitions and explanations, see text)	Colorado, total	Colorado River direct; Plateau Creek, Roaring Fork, Esgle River, Muddy Creek, and Frezer River	San Juan and Dolores Rivers	Green River	Gunnison River	Rio Grande River	Arkansas River	North Platte River	Soutb Platte River
			(IV-D- 1, 5-10)	(IV-D-2, 4)	(IV-E)	(IV-F)	(V-C)	(VI-B)	(VI-D)	(VI-E)
2	Irrigation organizations, total numberorganizations 1959	. 1,933 . 2,302	288 292	163 149	125 129	359 445	203 304	319 427	71 81	409 452
3	Area irrigated as reported by organizationsacres 1959		220,845 184,081	162,245 170,297	71,264 50,236	236,901 221,745	419,622 505,015	431,485 384,212	64,865 69,897	1,059,057 811,541
5	Farm water users served directlywater users 1959.	. 35,051	4,603	2,437	503	4,613	3,278	6,905	169	12,520
6	Total water conveyedacre-feet 1959	. 9,138,078	1,709,816	514,417	313,959	1,187,694	749,218	1,519,012	356,632	3,122,215
	TYPE OF ORGANIZATION									
7 8 9	Mutual: Unincorporatedorganizations 1959. 1949. Farm area irrigated directlyacres 1959. Farm water users served	. 1,579	243 247 101,839	112 107 46,203	117 118 65,864	283 352 82,180	124 204 76,603	214 326 54,120	66 78 57,765	101 124 59,072
11	directlywater users 1959 Total water conveyedacre-feet 1959	. 6,071 2,139,798	1,216 507,491	714 160,021	445 291,975	1,031 395,712	627 165,758	977 190,179	159 290,188	896 137,294
12 13 14	Incorporatedorganizations 1959 1940 Farm area irrigated directlyacres 1959	. 686	41 40 104,491	46 39 106,370	7 9 (D)	75 92 (D)	75 93 304, 959	104 97 (D)	(D)	294 314 880,676
15 16	Farm water users served directlywater users 1959 Total water conveyedacre-feet 1959	. 25,943 . 6,234,031	2,162 843,937	1,620 331,439	(D)	(D) (D)	2,462 558,544	(D) (D)	(D)	10,212 2,463,475
17 18 19	Districtorganizations 1959 1949 Farm area irrigated directlyacres 1959	. 20	3 3 14,515		1 2 (D)	1 1 (D)	3 5 38,060	2		6 5 105,897
20 21	Farm water users served directly	2,404	1,225 89,808		(D)	(D) (D)	189 24,916			887 216,853
22 23 24 25	U.S. Bureau of Reclamation; projects and storage systems operated by bureauorganizations 1959. Farm area irrigated directlyacres 1959.	. 4	1	3 2			1 1			1 1
26	Farm water users served directlywater users 1959 Total water conveyedacre-feet 1959	268,580	268,580							268,580
27 28 29	U. S. Bureau of Reclamation, operated by unter users		2 NA (D)	 NA	NA	3 NA 81,095	NA.	 NA	 NA.	NA (D)
30 31	Farm water users served directlywater users 1959. Total water conveyedacre-feet 1959.	. 2,707	(D)			1,868 491,594		:::		(n) (D)
32	U. S. Bureau of Indian Affairsorganizations 1959	. 2		2						
33 34 35	Farm area irrigated directlyacres 1959 Farm water users served	9,672	* * *	9,672						•••
36 37	directly	. 22,957		103 22,957		***			1	
38 39 40	Farm water users served	. 6	i			•••	1	(D)		3 500
41	directlywater users 1959 Total water conveyedacre-feet 1959	. 98,038						(D)	(D)	12 6,992
42 43 44 45	Stateorganizations 1959							1		
46	directlywater users 1959 Total water conveyedacre-feet 1959	:	:::	:::					:	•••
47 48 49	Cityorganizations 1959 1949 Farm area irrigated directlyacres 1959	. 5								4 5 12,912
50	Farm water users served directlywater users 1959. Total water conveyedacre-feet 1959.	. 51,3							:::1	513 29,021

D Data not shown to avoid diaclosure of information for individual organizations. NA Not available.

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State Table 2.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Continued

	Item (For definitions and explanations, see text)	Colorado, total	Colorado River direct; Plateau Creek, Roaring Fork, Eagle River, Blue River, Muddy Creek, and Frazer River (IV-D- 1, 5-10)	San Juan and Dolores Rivers	Green River	Gunnison River	Rio Grande River	Arkansas River	North Flatte River	South Flatte River
			1, 5-10)	(IV-D-2, 4)	(IV-E)	(IV-F)	(V=C)	(VI-B)	(VI-D)	(VI-E)
	TYPE OF SERVICE, 1959									
1 2 3 4	All water directly from surface and ground water sources. organizations. Total water conveyed. oere-feet. Water delivered. oere-feet. To farm and residential users only. organizations.	1,612 7,289,598 5,952,055	252 1,535,194 995,992 245	152 468,982 399,547	124 313,959 270,506	332 1,131,172 937,458 325	183 679,547 551,414	271 1,188,787 954,820	70 355,057 280,019	231 1,931,609 1,553,771
5	acre-feet	3,555,344	564,588	339,687	270,506	522,034	423,491	572,717	280,019	573,774
7	To farm and residential users and other irrigation organizationsorganizations Water to farm and residential	67	3	3		6	11	12		33
8	water to other irrigation	1,347,291	288,640	32,144		383,948	71,747	229,382		341,430
9	organizations	618,736	138,767	26,818		30,806	34,982	152,721		234,642
10	onlyorganizations acre-feet	13 430,684	3,997	1 898		670	21,194	:::		403,925
11 12 13	Part of water from other organizationsorganizations Total water conveyedacre-feet From surface and ground water	90 1,032,046	25 121,253	24,170		12 21,4 2 7	5 37,318	2 147,735	1 1,5 7 5	43 698,744
14	sourcesacre-feet	416,086	28,338	17,719		16,130	13,495	124,558	1,575	232,530
15 16	organizations	615,960 874,508	92,915 74,692	6,451 21,197	:::	5,297 18,652	23,823 34,079	23,177 121,175	***	466,214 604,713
17	users onlyorganizations acre-feet	68 289,233	24 74,692	21,197		10 10,074	5 34,079			25 149,191
18	To farm and residential users and other irrigation organizations organizations Water to farm and residential	19	1			2		2	1	15
20	usersacre-feet	268,086				6,168		68,229		193,689
21	Water to other irrigation organizationsacre-feet To other irrigation organizations	288, 513		***		2,410		52,946		233,157
22	onlyorganizations acre-feet	28,676						:::	:::	28,676
23 24 25 26	All of water from other organizations. organizations. Total water conveyed	205 816,434 716,404	9 53,369 41,730	21,265 17,328	:::	35,095 32,946	12 32,353 26,426	182,490 163,203		128 491,862 434,771
27	users onlyacre-feet	188 559,500	13,562	4 17,328		7 25,945	12 26,426	163,203		113 313,036
28	To farm and residential users and other irrigation organizationsorganizations Water to farm residential	17	1			1				15
30	usersacre-feet	91,119	24,648			495				65,976
31	organizationsacre-feet To other irrigation organizations	65,785	3,520			6,506				55,759
32	onlyorganizations acre-feet			:::	:::	:::		:::	***	
33	No water conveyedorganizations	26	2	3	1	7	3	2		7
34	WATER FROM OTHER SOURCES Organizations reporting 10 water from other sources used on land served									
35	by the organizationorganizations acres served acres irrigated	1,470	220,116		114 62,396	278 239,110	347,810	294 390,771	58,925 58,525	198 480,037
36 37 38	water delivered to farmsacre-feet acre-feet per acre	1,782,783 4,493,362 2,5	210,092 764,120 3,6	152,805 392,590 2,6	59,290 250,540 4.2	214,550 893,020 4.2	382,120	354,102 821,883 2.3	260,683 4.4	440,142 720,076 1.6
39	Organizations reporting water from other sources used on land served by the organizationorganizations	420	43	10	10	73	65	23	7	193
40 41 42 43	acres served acres irrigated water delivered to farmsacre-feet acre-feet per acre	1,059,677 893,987 1,466,136	80,541 74,123 173,197	10,020 9,920 19,139	14,767 14,767 26,948	36,159 23,351 52,257 2.2	225,540 122,968 171,973	84,943 77,383 207,479	34,000 33,340 58,060 1.7	660,527 620,635 896,417 1.4

State Table 2.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Continued

=								_		
	Item (For definitions and explanations, see text)	Colorado, total,	Colorado River direct; Plateau Creek, Roaring Fork, Eagle River, Blue River, Muddy Creek, and Frazer River (TV-D- 1, 5-10)	San Juan and Dolores Rivers (IV-D-2, 4)	Green River	Ounnison River	Rio Grande River	Arkansas River	North Platte River	South Platte River
			_,,		1=: =/	(=: = /		(12.27	(11-27	(12-2)
1 2 3 4 4 5 6 6 7 7 8 9 10 11 12 13 14 15 16 16 17 18 19 20 20 20 20 20 20 20 20 20 20 20 20 20	WATER DELIVERED FER ACRE Organizations reporting flow water from other sources used on same land: 0.1 to 0.9 acre-feet per acreorganizations acres irrigated 1.0 to 1.9 acre-feet per acreorganizations acres irrigated 3.0 to 2.9 acre-feet per acreorganizations 3.0 to 3.9 acre-feet per acreorganizations 4.0 to 4.9 acre-feet per acreorganizations 5.0 to 5.9 acre-feet per acreorganizations 6.0 to 6.9 acre-feet per acreorganizations 7.0 to 7.9 acre-feet per acreorganizations 8.0 to 9.9 acre-feet per acreorganizations 8.0 to 9.9 acre-feet per acreorganizations 8.0 to 9.9 acre-feet per acreorganizations acres irrigated 8.0 to 9.9 acre-feet per acreorganizations acres irrigated acres irrigated	137 351, 912 351, 912 37, 939, 475 303, 475 305 162,064 126 186, 139 126 186, 139 126 43, 361 43, 361 47,001 65 29, 520 48 113, 341	20 17,614 40 59,570 31,5288 15,288 26,822 26,51,062 11,455 11,455 11,455 4,211 4,211 4,7347 1,503	20 12,451 30 26,252 75,884 16,655 10,406 6,260 899 7 2,025 1,648 1324	3 460 11 4,720 16 12,278 20 13,453 12,981 4,5754 2,6,010 4,1,270 2,390	23 17,159 47 23,102 28,558 21,9,314 22 87,478 31 13,673 13,572 10,876 5,488 248 22 10,876 5,330	24 182,914 45 64,452 27,789 12,583 4,021 1,095 1,300 1,350 	300 25,861 89 141,889 60 114,650 32,299 21 15,828 14 13,475 6 1,257 1,257 1,257 1,257 1,257 1,257 2,624	 1 200 7 6,930 266 24,515 8 6,400 8 9,880 7 6,400 1 1,400 4 2,800	18 104,323 84 219,290 66 90,244 118 16,423 5,190 250 3,30 170
21 22 23 24 25 26 27 28 29 30 31 32 33 34 35	Size of organization (number of farm irrigation water users served directly): Irrigation water users served directly: None organizations. None organizations. I to 3. organizations. Water users 4 to 9. organizations. In to 29. organizations. Water users. 30 to 99. organizations. In to 299. organizations. Water users. In to 299. organizations. Water users. In to 299. organizations. Water users. In the service of the service users. In the service organizations. Water users. In the service organizations. Water users.	455 810 1,921 540 3,072 318 4,973 151 7,927 51 7,634 16 6,917 2	6 153 363 85 472 24 375 10 542 5 7322 4 1,782 1	6674 17848 26519 311111 60544 48554 16000	4 78 185 29 144 14 192 	8 186 429 108 598 39 538 13 838 4 560 10 1 1,662	4 4 62 155 799 456 31 21 1,027 5 819 9 19 370	2 137 327 92 501 48 818 23 1,109 11 1,683 6 2,467	2 64 148 4 21 1 168 	20 56 136 94 609 136 2,250 74 3,857 24 3,657 5 2,000
36 37 38 39 40 41 42 43 44 45 46 47 48 49	Size of organization (acre-feet of water	45 431 60,242 520 314,300 489 891,871 332 1,761,332 1,761,332 96 1,483,674 18 956,806 2491,273	6 6 57 8,602 82 2 86 167,296 15 15 22,105 301,706	49 7,349 49 26,133 30 48,792 23 129,009 7 124,256 176,190	1 1,968 46 30,346 40 69,434 11,07,499 6 68,241 	8 101 11,196 105 63,876 86 156,891 49 240,297 9 124,483 11 348,534	4 43 6,301 73 41,695 38 65,522 34 187,000 10 173,873 1 79,702	2 115 16,732 82 51,221 60 106,526 (126,349 12 194,204 6 291,591 1 142,739	2 2 417 6 3,759 30 60,086 25 146,917 5 68,840 1 38,724 	20 53 7,677 76 46,044 120 218,643 101 529,549 32 507,672 7 306,908
51 52 53 54 55 56 57 58 59 60 61 62 63 64 65	Size of organization (acre-feet of water conveyed); None.	27 3477 54,184 502 306,540 479 869,688 379 2,038,341 126 2,078,828 1,918,744 8 1,879,907	2 7,421 84 53,641 79 151,976 6 209,845 19 290,763 331,751 3 828,687	3 41 6,421 57 32,435 24,217 20 103,676 11 181,933 2 140,735	1,590 39 25,527 46-79,618 127,057 7 88,321	7 94 10,550 99 60,736 85 154,816 61 305,221 196,198 1 460,434	3 38 5,919 74 44,465 38,50 60,847 60,847 13 255,852 13 30,796 1 132,836	2 104 15,307 74 43,142 1123,183 44 267,632 14 244,878 8 468,260 2 356,610	2 1 144 6 3,404 25 51,208 29 173,332 7 106,580 	8 6,832 69 43,199 110 199,196 626,375 41 718,103 21 1,158,599 2 369,920

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State Table 3.-LAND IRRIGATED BY SOURCE OF WATER, BY DRAINAGE BASINS: CENSUS OF 1959

	Item (For definitions and explanations, see text)	Colorado, total	Golorado River direct; Platesu Creek, Roaring Fork, Eagle River, Muddy Creek, and Frazer River (IV-D-1.5-10)	San Juan River and Delores River	Green River	Sunnison River	Rio Grande River above Fort Quitman, Texas	Arkansas River	Platte River excluding South Platte River	South Platte River above Gaging Station near Paxton, Nebraska
1	Total acres irrigatedfarms reporting	20,312	2,633	1,396	536	2,439	1,632	3,767	127	7,524
2	scres	2,684,757	254,019	150,550	86,179	247,555	419,408	445,428	133,682	913,101
3	Acres irrigated by sprinklersfarms reporting	1,088	95	26	37	37	21	129	3	656
4	acres	52,808	5,582	1,186	1,133	795	2,621	7,750	110	28,572
5	Sprinklers onlyfarms reporting	432	22	5	10	4	4	86		254
6	scres	24,668	1,178	506	320	115	493	5,842		13,320
	LAND IRRIGATED, BY SOURCE OF WATER TO INDIVIDUAL FARMS, 1959									
7	Ground water sources on farmfarms reporting	4,884	63	28	29	42	798	868	2	2,828
8	acres	495,814	2,381	1,029	1,845	2,383	167,487	69,078	440	219,284
9	Ground water sources on farm only.farms reporting	1,632	23	11	17	7	116	304		934
10	acres	193,403	1,292	434	915	212	21,219	38,573		99,181
11	Surface sources on farmfarms reporting	3,533	676	250	291	354	295	644	119	888
12	acres	617,711	134,552	23,103	43,171	67,959	58,742	65,520	121,202	102,016
13	Surface sources on farm onlyfarms reporting	2,457	591	177	256	214	159	507	112	4.31
14	acres	508,669	123,660	16,646	36,539	54,909	31,483	52,722	115,207	76,616
15	Irrigation organization sourcesfarms reporting	15,971	2,007	1,197	263	2,206	1,300	2,901	13	6,060
16	acres	1,571,232	117,086	126,418	41,163	177,213	193,179	310,830	12,040	591,801
17	Irrigation organization sources onlyfarms reporting	12,280	1,905	1,129	217	2,059	623	2,316	5	4,006
18	scres	1,182,723	107,216	118,234	34.885	164,908	90,146	250,282	2,077	413,821
19	Both farm ground water sources	2,202,725	107,210	110,24	34,000	134,700	70,140	2,00,202	2,011	410,021
19	and surface sources	252	13	9	7	12	54	53	2	98
20	acrea	61,553	3,612	845	1,077	4,189	25,910	10,198	1,864	13,152
21	Both irrigation organization and farm ground water or farm surface sourcesfarms reporting	3,691	101	70	39	147	680	587	R	2,055
22	water or tarm surface sourcestarms reporting	738,409	18,239	14,391	12,763	23,337	250,650	93,653	14,534	310,331
22	acres	730,409	10,239	14,391	12,163	25,351	220,650	93,653	14,034	310,331
_										

		Colorado, total Matual U. S. Bureau of Reclamation										
Item (For definitions and explanations, see text)		Mut	ual		U. S. Bureau c	of Reclamation	Commercial.					
(ror definitions and expragations, see seas)	All types	Unincorporated	Incorporated	District	Projects and storage systems operated by bureau	Operated by water users	Indian, State city, and othe					
rigation organizationsorganizations 1959	1,933 2,302	1,261 1,579	642 686	14	6	6 4						
ervice area, 1959:	2,502	1,579	000	20								
Area served, as reported by organizationsacres	3,040,053	614,112	2,220,694	173,921		119,491	31,3					
Area irrigated, as reported by organizationsacres	2,669,677	543,826	1,938,870	161,657		109,440	25,2					
eter users served, 1959, totalwater users Farm irrigation water userswater users	43,642	7, 125	31,352	3,481		4,333	1,0					
Residential mater users water users Other water users water users	35,051 8,449 142	6,071 1,030 24	25,943 5,302 107	. 2,404 1,075 2		2,707 1,625 1	1,					
TYPE OF SERVICE, 1959												
1 water directly from surface and ground organizations Total water conveyedacre-feet	1,612 7,289,598	1,181 2,054,625 1,762,017	417 4,682,182	157,202	268,580	4 802,726	127,					
Water deliveredacre-feet To farm and residential users	5,952,055		3,795,589	96,164	268,580	588,785	29,					
onlyorganizations	1,532 3,555,344	1,174 1,731,832	346 1,700,644	96 ,16 4		4,050	26,					
To farm and residential users and other irrigation organizationsorganizations	67	6	60			3						
Water to farm and residential usersacre-feet	1,347,291	7,624	1,336,771			477,194	2,					
Water to other irrigation organizationsacre-feet To other irrigation organizations	618,736	16,977	601,654			107,541	}					
onlyorganizationsorganizations	13 430,684	1 5,584	11 156,520		268,580							
rt of water from other	90			,		,						
rganizationsorganizations Total water conveyedacre-feet From surface and ground water	1,032,046	32 26,255	857,941	124,843		68,328	23,					
From other irrigation organizationsacre-feet	416,086 615,960	18,483 7,772	619,465 238,476	1-238,956 363,799	:::	1-256,697 325,025	17, 5,					
Water deliveredacre-feet To farm and residential users onlyorganizations	874,508 68	22,838	742,969	88 [°] ,507		43,521	20)					
To farm and residential users and other	289,233	22,838	192,070	54,131		34,055	20,					
irrigation organizationsorganizations Water to farm and residential	19		17	2		1,809						
users	268,086 288,513		253,827 268,396	14,259 20,117		7,657						
To other irrigation organizations organizations	200,000		20,570			.,057						
acre-feet	28,676		28,676									
l of water from other organizationsorganizations Total water conveyedacre-feet	205 816,434	44 58,918	159 693,908	63,608	:::		i					
Water deliveredacre-feet To farm and residential users	716,404	52,899	626,909	36,596								
onlyorganizations	188 559,500	41 37,927	145 484,977	2 36,596	:::							
To farm and residential users and other irrigation organizationsorganizations	17	3	14									
Water to farm and residential usersacre-feet	91,119	7,384	83,735									
Water to other irrigation organizationsagre-feet	65,785	7,586	58,197									
To other irrigation organizations onlyorganizations												
acre-feet water conveyedorganizatious	26	***	1									
WATER FROM OTHER SOURCES												
ganizations reporting no water from other sources used on the land served by the					1							
organizationorganizations	1,470 1,987,469	1,032 463,149	420 1,343,817	11 152,477		119,491	28,					
acres irrigated water delivered to farms (acre-feet)	1,782,783 4,493,362	414,892 1,527,359	1,204,914 2,758,400	140,953 168,642	:::	109,440 505,928	22,					
acre-feet per acre ganizations reporting water from other	2.5	3.7	2.3	1.2		4.6						
ources used on land served by the organizationorganizations	420	223	194	1								
acres irrigated	1,059,677 893,987	151,043	883,890 740,969	21,444			3, 3,					
acres irrigated water delivered to farms (acre-feet) acre-feet per acre	893,987 1,466,136 1.6	129,014 261,953 2.0	740,969 1,171,935 1.6	29,018 1,4			3,					
NEW CAPITAL INVESTMENT, 1950-1959												
xpenditures for additional new works and equipment for irrigation and drainage, lanuary 1 1950 December 31 1959	903	631	256	ð								
January 1, 1950-December 31, 1959organizations By U. S. B. Rdollars	48,722,036			13,410,358 733,188	35,311,678	13,410,358						
By water users organizationsdollars See footnote at end of table.	11,115,569	1,605,870	8,356,391	733,188		2,601,763	420,					

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

		Colorado, total									
Item		Mut	ual		U. S. Bureau	of Reclamation					
(For definitions and explanations, see text)	All types	Unincorporated	Incorporated	District	Projects and storage systems operated by bureau	Operated by water users	Commercial, Indian, State, city, and other				
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959											
Total entering conveyance systemsorganizations acre-feet	1,906 7,705,684	1,257 2,073,108	627 5,301,647	1 _{-81,754}	268,580	6 546 , 029	9 144 , 103				
From another drainage basinorganizations acre-feet	4,038		4,038								
From drainage basin,	***		····								
From sources within basinorganizations	1,701 7,701,646	1,213 2,073,108	468 5,297,609	10 1-81,754	268,580	6 546 , 029	9				
Surface waterorganizations	1,692 7,670,472	1,206 2,067,482	466 5,275,701	10 1-81,754	268,580	6 546,029	140,463				
Ground waterorganizations	7,670,472 24 31,174	12 5,626	21,908		200,500	340,029	3,640				
From other organizations in the basin organizations receiving arre-feet	295 1,432,394	76 66,690	21 1 932,384	6 427,407		325,025	2 5,913				
Total leaving conveyance systemsorganizations acre-feet	1,906 7,705,684	1,257 2,109,649	627 5,120,588	12 325,536	1	755,856	9				
Conveyance loss in basinorganizations acre-feet	1,767 1,433,931	1,183 295,062	563 991,614	12 123,248		6 237,710	24,007				
Conveyed to another drainage basinorganizations acre-feet	15,427	1 242	3 15,185								
To drainage basin number	10,427										
Delivered for use in the basinorganizations	1,893	1,257	615	12		6	9				
acre-feet To farm irrigation water usersorganizations	6,256,326 1,888	1,814,345 1,255	4,113,789 612	202,288	:::	518,146	125,904				
acre-feet To domestic water usersorganizations	5,943,099 130	1,789,092 54	3,914,156 70	197,660	:::	505,928	42,191				
scre-feet For other useorganizations scre-feet	167,474 50 145,753	18,513 11 6,740	137,868 32 61,765	3,490 2 1,138	:::	11,180 1 1,038	7,603 5 76,110				
Delivered to other impation organizations delivering organizations delivering acre-feet	118 1,432,394	10 30,149	104 1,113,443	20,117	1 268,580	115,198	1 105				
SIZE OF ORGANIZATION, 1959											
Size of organization (number of farm irrigation water users); None:	60 810 540 303 151 51 2	20 774 373 75 18 1	31 34 164 223 132 44 12 2	2 2 1 5 3	6 	2 1 2	1 2 2 3 1 1				
Size of organization (core-feet of water delivered directly to farms): organizations None organizations 1 to 299 core-feet organizations 300 to 999 core-feet organizations 1,000 to 2,999 core-feet organizations 3,000 to 9,999 core-feet organizations 10,000 to 29,999 core-feet organizations 30,000 to 99,999 core-feet organizations 100,000 to 99,999 core-feet organizations 100,000 to 99,999 core-feet organizations	45 431 520 489 332 96 18	6 375 413 321 127 19	30 55 103 166 199 71 16	2 1 1 3 5 2	6	 1 1 2 1	1 1 3 1 3 1				
Size of organization (acre-feet of meter conveyed): acre conveyed): 1 to 299 acre-feet. 300 to 999 acre-feet. 3,000 to 9,999 acre-feet. 3,000 to 9,999 acre-feet. 3,000 to 9,999 acre-feet. 3,000 to 9,999 acre-feet. 30,000 to 9,999 acre-feet.	27 377 502 479 379 126 35 8	4 334 406 318 170 28 1	15 43 94 160 203 91 29 7	2 1 1 2 5 4	5 	1 1 1 1 1 2	1 2 4 2 2 1				

Water was transferred to the basin and released to natural stream channels in excess of the quantity of surface water withdrawn by irrigation organizations. The net effect was to increase the available surface water supply in the basin or State.

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

	Col	orado River direc	t, Plateau Creek, and Fraze	Roaring Fork, Ear River (IV-D-1	ngle River, Blue R	iver, Muddy Cree	٠,				
Item (For definitions and explanations, see text)		Mut	ual		U. S. Bureau	U. S. Bureau of Reclamation					
(100 GOTALLOVICES and Expressions, see text)	All types	Unincorporated	Incorporated	District	Projects and storage systems operated by bureau	Operated by water users	Commercial, Indian, State, city, and other				
Irrigation organizationsorganizations 1959	288 292	243 247	41 40	3	1 1	2 NA					
Service area, 1959: Area served, as reported by organizations	233,627	109,692	108,377	15,558		(a)					
by organizations	220,845 7,631 4,603 3,022 6	101,839 1,284 1,216 62 6	104,491 4,052 2,162 1,890	14,515 2,295 1,225 1,070		(D) (D) (D)					
TYPE OF SERVICE, 1959											
All water directly from surface and ground water sources. organizations Total water conveyed acre-feet Water delivered acre-feet To farm and residential users only organizations organizations	252 1,535,194 995,992	220 492,350 426,562	31 774,264 569,430		268,580 	(D) (D)					
acre-feet To farm and residential users and other	564,588	426,562	138,026	:::							
irrigation organizationsorganizations Water to farm and residential	3		3		• • • • • • • • • • • • • • • • • • • •	1					
usersacre-feet Water to other irrigation organizationsacre-feet	288,640 138,767		288,640 138,767			(D)					
To other irrigation organizations onlyorganizations	3,997		3 3,997		1						
Part of water from other organizations	25 121,253	19 15,070	27,153	2 79,030		 (D)					
From surface and ground water sources	28,338 92,915 74,692	11,877 3,193 13,008	26,420 733 7,553	1-9,959 88,989 54,131		(D)					
To farm and residential users onlyorganizations acre-feet	24 74,692	19 13,008	3 7,553	54,131		1					
To farm and residential users and other irrigation organizationsorganizations	14,692		1,555								
water to other irrigation	• • •										
organizationsacre-feet To other irrigation organizations onlyorganizations											
acre-feet All of water from other organizationsorganizations Total water conveyed	53,369 41,730	4 71 67	42,520 34,085	10,778 7,578							
To farm and residential users onlyorganizations acre-feet	13,562	4	3 5,917	7,578	:::						
To farm and residential users and other irrigation organizationsorganizations	1		1								
Water to farm and residential Usersacre-feet Water to other irrigation	24,648		24,648								
organizationsacre-feet To other irrigation organizations	3,520		3,520	• • • • • • • • • • • • • • • • • • • •							
onlyorganizations acre-feet No water conveyedorganizations	2		2	:::							
WATER FROM OTHER SOURCES Organizations reporting no water from other sources used on the land served by the organization	239	205	31.	3		2					
acres served acres irrigated water delivered to farms (acre-feet) acre-feet per acre	220,116 210,092 764,120 3,6	91,961 86,866 374,627 4.3	112,597 108,711 331,264 3.0	15,558 14,515 58,229 4.0		(D) (D) (D) (D)					
Organizations reporting water from other sources used on land served by the organizations. organ	43 80,541 74,123 173,197 2.3	38 17,731 14,973 53,295 3.6	5 62,810 59,150 119,902 2.0		:::		:::				
NEW CAPITAL INVESTMENT, 1950-1959 Expenditures for additional new works and equipment for irrigation and drainage, organizations, January 1, 1950-lecember 31, 1959	165 16,494,839 3,274,065	130 357,163	31 2,684,402	3 232,500	1 16,494,839		:::				

	Col	orado River direc	t, Plateau Creek, and Fraze	Roaring Fork, E r River (IV-D-1	agle River, Blue R and 5-10)	iver, Muddy Cree	Ŀ,
Item (For definitions and explanations, see text)		Mut	ual		U. S. Bureau o	f Reclamation	Commercial,
(101 GLILLENGE and CAPITALISTONS, SEE SEAL)	All types	Unincorporated	Incorporated	District	Projects and storage systems operated by bureau	Operated by water users	Indian, State, city, and other
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959							
Total entering conveyance systemsorganizations acre-feet	286 1,563,532	243 504,227	39 800,684	1_9,959	1 268,580	2	
From another drainage basinorganizations					:::		
From drainage basin							
From sources within basinorganizations	277 1,563,532	239 504,227	35 800,684	1_9,959	1 ∠68,580	2	:::
Surface waterorganizations	277 1,563,115	239 503,810	35 800,684	1_9,959	268,580	2	
Ground waterorganizations	417	2			}		
From other organisations in the basinorganisations receiving acre-fect	33 146,284	23 3,264	7 43,253	3 99,767	:::	1	
Total leaving conveyance systemsorganizations acre-feet	286 1,563,532	243 507,491	39 697,653	3 89,808	268,580	2	
Conveyance loss in basinorganizations acre-feet	271 263,135	233 67,588	35 167,448	3 28,099		2	
Conveyed to another drainage basinorganizations acre-feet	5 334,001	:::	65,421		268,580		
To drainage basin numberD. B. No		::::		:::			
Delivered for use in the basinorganizations acre-feet	279 966,396	243 439, 903	33 464,784	3 61,709	:::	2	:::
To farm irrigation water usersorganizations acre-feet	279 831,724	243 427,922	33 345,573	58,229	:::	2	
To domestic water usersorganizations	21	16	4	1		2	
acre-feet For other useorganizations acre-feet	134,406 1 266	11,715 1 266	119,211	3,480			
Delivered to other irrigation organisations delivering.	6		6			1	
acte-feet	146,284		146,284				
SIZE OF ORGANIZATION, 1959 Size of organization (number of farm							
irrigation water users: organizations. 1 to 3 water users organizations. 4 to 9 water users organizations. 30 to 99 water users organizations. 30 to 99 water users organizations. 30 to 99 water users organizations. 300 to 99 water users organizations. 300 to 999 water users organizations. 300 to 999 water users organizations. 300 to 990 water users organizations.	6 153 85 24 10 5 4	148 73 19 3	5 12 7 4 2	1 2	 	(D) (D) (D) (D) (D) (D) (D)	
Size of organization (acre-feet of water delivered directly to farms):			1				
None	6 57 82 86 37 15	55 79 77 26 6	5 2 3 9 10 8 4	 1 1		(D) (D) (D) (D) (D) (D) (D)	
Size of organization (acre-feet of water conveyed): Noneorganizations	2		2			(D)	
1 to 299 acre-feet. organizations. 300 to 999 acre-feet organizations. 1,000 to 2,999 acra-feet organizations. 3,000 to 9,999 acra-feet organizations. 10,000 to 9,999 acra-feet organizations. 30,000 to 99,999 acra-feet organizations. 30,000 to 99,999 acra-feet organizations. 100,000 or per per-efeet organizations.	49 84 79 46 19 6	48 80 69 35 10	1 4 10 11 7 4 2			(D) (D) (D) (D) (D) (D)	

D Data not shown to avoid disclosure of information for individual organisations.

NA Not available.

"Water was transferred to the basin and released to natural atream channels in excess of the quantity of surface water withdrawn by irrigation organizations. The net effect was to increase the available surface water supply in the basin or State.

			San Juan River a	nd Dolores River	(IV-D-2-4)		
Item (For definitions and explanations, see text)		Mit	ual		U. S. Bureau o		
(FOR METHICLORS and explanations, see vert)	All types	Unincorporated	Incorporated	District	Projects and storage systems operated by bureau	Operated by water users	Commercial, Indian, State, city, and other
Irrigation organizationsorganizations 1959 Service area, 1959:	163 149	112 107	46 39		3 2	 NA	2
Area served, as reported by organizations	201,221	65,243	126,150				9,828
by organizationsacres	162,245	46,203	106,370				9,672
Water users served, 1959, total. water users. Farm irrigation water users: water users. Residential water users water users. Other water users water users.	2,490 2,437 49 4	741 714 25 2	1,645 1,620 24 1				104 103
TYPE OF SERVICE, 1959							
All water directly from surface and ground water sources	152 468,982 399,547	111 156,984 133,228	40 311,518 265,839				1 480 480
onlyorganizations	148 339,687	111 133,228	36 205,979		:::		1 480
To farm and residential users and other irrigation organizations organizations Water to farm and residential	3		3				
wsersacre-feet	32,144		32,144			•••	
organizationsacre-feet To other irrigation organizationsorganizations	26,818		26,818	•••		•••	•••
acre-feet	898		898		:::	:::	:::
Part of water from other organizationsorganizations Total water conveyedacre-feet From surface and ground water	24,170		3 1,693		:::	:::	1 22,477
sources	1 ,719 6,451 21,197	•••	525 1,168 1,403		:::		17,194 5,283 19,794
onlyorganizations	21,197		1,403		:::		19,794
To farm and residential users and other irrigation organizations							
users	***					•••	•••
To other irrigation organizations onlyorganizations							
acre-feet All of water from other organizationsorganizations				•••			
Total water conveyed	21,265 17,328	3,037 2,516	18,228 14,812		:		:::
onlyorganizations scre-feet	17,328	2,516	3 14,812		:::		
To farm and residential users and other irrigation organizations organizations Water to farm and residential							
usersacre-feet Water to other irrigation							
organizationsacre-feet To other irrigation organizations						•••	
onlyorganizations acre-feet							
No water conveyedorganizations WATER FROM OTHER SOURCES Organizations reporting no water from other	3			•••	3	•••	••••
sources used on the land served by the organization	149 191,681 152,805 392,590	102 55,303 36,363 116,692	45 126,550 106,770 255,624			•••	9,828 9,672 20,274
acre-feet per acre Organizations reporting water from other sources used on land served by the	2.6	3.2	2.4	•••			2.1
organization	10 10,020 9,920 19,139 1.9	10 10,020 9,920 19,139 1.9	:::		:::		
NEW CAPITAL INVESTMENT, 1950-1959 Expenditures for additional new works and equipment for irrigation and drainage, January 1, 1950-becember 31, 1959 organizations. By U. S. B. R	80 1,624,178	52 320,919	26 977,659	:::	:::	 	325,600

			San Juan River s	and Dolores River	(IV-D-2-4)		
Item (For definitions and explanations, see text)		Mut	ual		U. S. Bureau c	of Reclamation	Commercial,
	All types	Unincorporated	Incorporated	District	Projects and storage systems operated by bureau	Operated by water users	Indian, State, city, and other
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959							
Total entering conveyance systemsorganizations acre-feet	160 486,701	112 156,984	312,043	***	:::		17,674
From another drainage basinorganizations							
From drainage basin		::::			:::		
From sources within basinorganizations acre-feet	156 486,701	111 156,984	43 312,043				2 17,674
Surface waterorganizations	156 486,701	111 156,984	43 312,043				17,674
Ground waterorganizations acre-feet					:::		
From other organizations in the basin organizations receiving	e						1
acre-feet	27,716	3,037	19,396	:::			5,283
Total leaving conveyance systemsorganizations acre-feet	160 486,701	112 160,021	46 302,062	1,661	:::		22,957
Conveyance loss in basinorganizations acre-feet	148 70,969	105 22,302	42 46,224	:::	:::		2,443
Conveyed to another drainage basinorganizations	1,903	1 242		1,661			:::
To drainage basin number	1,903		:::	***	::: }		
Delivered for use in the basinorganizations	159 413,829	112 137,477	45 255,838		:::		20,514
To farm irrigation water usersorganizations	159 410,180	112	254,295				20,274
To domestic water usersorganizations acre-feet	. 8	. 6	2	:::	:::		
For other useorganizations acre-feet	176 5 3,473	133 3 1,733	1,500		:::		1 240
Delivered to other irrigation organizations delivering	27,716	:::	4 27 , 716	:::			
SIZE OF ORGANIZATION, 1959							
Size of organization (number of form irrigation water users) organizations to 3 water users organizations 4 to 9 water users organizations 4 to 9 water users organizations 30 to 99 water users organizations 100 to 99 water users organizations 100 to 99 water users organizations 300 to 999 water users organizations 300 to 999 water users organizations 1,000 or sore water users organizations organizations organizations	6 74 48 19 11 4	2 72 32 2 3 1	1 16 17 8 2 1		3		"i "i "i"
Size of organization (arre-feet of water delivered directly to farms): None directly to farms): Organizations 1 to 299 acre-feet. Organizations 300 to 999 acre-feet organizations 1,000 to 2,999 acre-feet organizations 3,000 to 9,999 acre-feet. organizations 10,000 to 29,999 acre-feet. organizations 30,000 to 99,999 acre-feet. organizations 10,000 to 99,999 acre-feet. organizations 100,000 or nore acre-feet. organizations 100,000 or nore acre-feet. organizations	49 49 30 23 7 1	44.) 37 22.6 3	1 5 11 8 8 17 3 1		3 	····	 1 1
Size of organization (acre-fect of water conveyed): """""""""""""""""""""""""""""""""""	3 41 57 28 20 12	36 45 20 8 3	 5 11 8 12 8 8 2		3 	····	 1 1

NA Not available.

				reen River (IV-E)			
Item (For definitions and explanations, see text)		Mut	ual		U. S. Bureau o	of Reclamation	Commercial,
(Idi decilitation data expansion and)	All types	Unincorporated	Incorporated	District	Projects and storage systems operated by bureau	Operated by water users	Indian, State, city, and other
Irrigation organizationsorganizations 1959	125 129	117 118	7 9	1 2	:::	NA.	::
Service area, 1959: Area served, as reported by organizationsacres Area irrigated, as reported	74,370	67,645	(D)	(D)			
by organizationsacres	71,264	65,864	(D)	(D)			
Water users served, 1999, total water users. Farm irrigation water users: water users. Residential water users: water users. Other water users water users.	503 503	445 445 	(D)	(D) (D)			
TYPE OF SERVICE, 1959				i			
All water directly from surface and ground water sources	124 313,959 270,506	117 291,975 253,895	(D) (D)	(D) (D)			::
onlyorganizations acre-feet To farm and residential users and other	270,506	253,895	(D)	(D)			:
irrigation organizationsorganizations Water to farm and residential		• • • • • • • • • • • • • • • • • • • •					
users acre-feet. Water to other irrigation organizations acre-feet.							
To other irrigation organizations only organizations acre-feet							:
Part of water from other organizationsorganizations. Total water conveyedacre-feet. From surface and ground water			:::	:::	:::	:::	:
sourcesacre-feet From other irrigation organizationsacre-feet	•••						:
Water delivered							:
acre-feet To farm and residential users and other irrigation organizationsorganizations							
Water to farm and residential usersacre-feet Water to other irrigation							
organizationsacre-feet To other irrigation organizations							
onlyorganizations acre-feet	***		:::	:::	:::	***	:
All of water from other organizationsorganizations Total water conveyedacre-feet							
Water deliveredacre-feet To farm and residential users onlyorganizations						•••	
acre-feet To farm and residential users and other							
irrigation organizationsorganizations Water to farm and residential							
users						•••	
To other irrigation organizations only organizations acre-feet				:::	:::		:
No water conveyed organizations organizations WATER FROM OTHER SOURCES Organizations reporting no water from other sources used on the land served by the	1		1				
organizationorganizations acres served acres irrigated water delivered to farms (acre-feet) acre-feet per acre	114 62,396 59,290 250,540 4.2	108 54,638 52,857 229,422 4.3	(D) (D) (D) (D)	(D) (D) (D) (D)	:::	:::	:
Organizations reporting water from other sources used on land served by the organizationorganizations	10	9	1				.
acres served acres irrigated water delivered to farms (acre-feet) acre-feet per acre	14,767 14,767 26,948 1.8	13,007 13,007 24,473 1.9	1,760 1,760 2,475 1,4		:::		:
NEW CAPITAL INVESTMENT, 1950-1959 Expenditures for additional new works and equipment for irrigation and drainage, January 1, 1950-December 31, 1959organizations	105	98	6	1	,		
By U. S. B. R	331,245		(p)	(D)		:::	1

				Green River (IV-E)		
Item (For definitions and explanations, see text)		Mut	ua1		U. S. Bureau	of Reclamation	Commercial.
(FO) DETINITIONS and expansionally decident	All types	Unincorporated	Incorporated	District	Projects and storage systems operated by bureau	Operated by water users	Indian, State, city, and other
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959							
Total entering conveyance systemsorganizations acre-feet	124 313,959	117 291,975	(D)	(D)		***	
From another drainage basinorganizations	4,038		(D)		:::		
From drainage basin, D. B. No				:::			
From sources within basinorganizations	123 309,921	117 291,975	5 (D)	1 (D)			
acre-feet Surface waterorganizations	123	117	5	i			
acre-feet Cround waterorganizations	309,921	291,975	(D)	(D)	:::		
acre-feet	***		***				
From other organizations in the basin organizations receiving acre-feet							
Total leaving conveyance systemsorganizations acre-feet	124 313,959	117 291,975	6 (D)	(D)	:::		
Conveyance loss in basinorganizations	122 43,453	115 38,080	(D)	(D)	:::		
Conveyed to another drainage basinorganizations							:::
To drainage basin numberD. B. No		:::		:::		:::	
Delivered for use in the basinorganizations	124 270,506	117 253,895	6 (D)	1 (D)			
acre-feet To farm irrigation water usersorganizations	124	117	6	1	:::		
acre-feet To domestic water usersorganizations	270,506	253,895	(D)	(D)		:::	:::
acre-feet For other useorganizations acre-feet		:::					
Delivered to other urigation							
organizationsorganizations delivering acre-feet	***	:::		:::	:::	:::	:::
SIZE OF ORGANIZATION, 1959							
Size of organization (number of farm irrigation water users):							
Noneorganizations 1 to 3 water usersorganizations	4 78	3 77	(D)	(D)	:::		
4 to 9 water usersorganizations	29 14	26 11	(D)	(D)			
10 to 29 water usersorganizations 30 to 99 water usersorganizations			(D)	(D)	:::	:::	:::
100 to 299 water usersorganizations 300 to 999 water usersorganizations		:::			:::	:::	:::
1,000 or more water usersorganizations	•••	•	•••		• • • • • • • • • • • • • • • • • • • •		
Size of organization (acre-feet of water delivered directly to farms):							
Noneorganizations 1 to 299 acre-feetorganizations	1	10	(D)	(D)			:::
300 to 999 acre-feetorganizations 1,000 to 2,999 acre-feetorganizations	46 40	45 37	(D)	(D)	:::	:::	:::
3,000 to 9,999 acre-feetorganizations 10,000 to 29,999 acre-feetorganizations	21 6	20 5	(D) (D)	(D)			
30,000 to 99,999 acre-feetorganizations 100,000 or more acre-feetorganizations							
Size of organization (acre-feet of water conveyed):							
None	1 9		(D)	(D)	:::		:::
300 to 999 acre-feetorganizations	39 46	38 43	(D)	(D)			
1,000 to 2,999 acre-feetorganizations 3,000 to 9,999 acre-feetorganizations	23	22	(D) (D)	(D)	:::	:::	:::
10,000 to 29,999 acre-feetorganizations 30,000 to 99,999 acre-feetorganizations	7	6	(D)	(D)		:::	:::
100,000 or more acre-feetorganizations							

 $[\]ensuremath{\mathsf{D}}$ Data not shown to avoid disclosure of information for individual organizations. NA Not available.

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

			Guz	nnison River (IV-	F)		
Item (For definitions and explanations, see text)		Mut	ual		U. S. Bureau	of Reclamation	Commercial.
(102 doland old explanations, see text)	All types	Unincorporated	Incorporated	District	Projects and storage systems operated by bureau	Operated by water users	Indian, State, city, and other
Irrigation organizationsorganizations 1959	359 445	283	75 92	1		3	
Service area, 1959: Area served, as reported by organizations	274.269	352		1	•••	NA.	
by organizations acres acres acres acres acres acres acres acres acres by organizations acres ac	274,269	93,327 82,180	(D)	(D)		90,411	
Water users served, 1959, totalwater users	5,047	1,052	(D)	(D)	:::	81,095 2,168	:
Farm irrigation water users	4,613 424 10	1,031 18 3	(D) 406 7	(D)		1,868 300	
TYPE OF SERVICE, 1959							
All water directly from surface and ground water sources	332 1,131,172 937,458	269 376,513 319,204	62 (D) (D)	(D) (D)		3 491,594 385,553	:
To farm and residential users and other	522,034	318,691	(D)	(D)		4,050	:
irrigation organizationsorganizations Water to farm and residential	6	1	5			2	
Water to other irrigation	383,948	213	383,735			373,729	
organizationsacre-feet To other irrigation organizations	30,806	300	30,506			7,774	
onlyorganizations	1 670		1 670		:::		:
Part of water from other organizationsorganizations Total water conveyedacre-feet	12 21,427	7 5,637	5 15,790		:::	:::	:
From surface and ground water sourcesacre-feet	16,130	4,578	11,552				١.
From other irrigation organizationsacre-feet Water delivered	5,297 18,652	1,059 4,740	4,238 13,912	:::		:::	:
acre-feet To farm and residential users and other	10,074	4,740	5,334	:::	:::	:::	
irrigation organizationsorganizations Water to farm and residential	2		2				•
users	6,168		6,168			•••	
To other irrigation organizations onlyorganizations	2,410		2,410				
acre-feet All of water from other organizationsorganizations	•••				• • • • • • • • • • • • • • • • • • • •		
Total water crowsed	8 35,095 32,946	13,562 12,857	21,533 20,089				::
onlyorganizations	7 25,945	2 5,856	5 20,089				
To farm and residential users and other irrigation organizationsorganizations	1	1					
Water to farm and residential usersacre-feet	495	495					
Water to other Irrigation organizations	6,506	6,506					
To other irrigation organizations only organizations acre-feet							
No water conveyedorganizations		***4		:::	:::	:::	::
WATER FROM OTHER SOURCES Organizations reporting no water from other sources used on the land served by the							
organizationorganizations acres served acres irrigated water delivered to farms (acre-feet) acre-feet per acre	278 239,110 214,550 893,020	223 81,534 73,037 307,462 4.2	54 (D) (D) (D) (D)	(D) (D) (D) (D)		3 90,411 81,095 374,879	
Organizations reporting water from other sources used on land served by the organization	73	56	17				
acres served acres irrigated water delivered to farms (acre-feet) acre-feet per acre	36,159 23,351 52,257 2.2	11,793 9,143 22,162 2,4	24,366 14,208 30,095 2.1				
NEW CAPITAL INVESTMENT, 1950-1959 Expenditures for additional new works and							
equipment for irrigation and drainage, January 1, 1950-Recember 31, 1959. organizations By U. S. B. R. dollars. By water users organizations. dollars. See footnotes at end of table.	195 717,818	155 228,331	40 489,487			2 247,250	 ::

			Gun	nison River (IV-	")		
Item		Write	ual		W. S. Bureau o	of Reclamation	Commercial,
(For definitions and explanations, see text)	All types	Unincorporated	Incorporated	District	Projects and storage systems operated by bureau	Operated by water users	Indian, State, city, and other
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959							
Total entering conveyance systemsorganizations acre-feet	352 1,147,302	279 381,091	72 (D)	(D)	:::	491,594	:::
From another drainage basinorganizations	1,292		1 1,292				
From drainage basin	· · · ·		• • • •		•		
From sources within basinorganizations acre-feet	343 1,146,010	276 381,091	(D)	(D)	:::	3 491,594	:::
Surface waterorganizations	341 1,145,846	274 380,927	66 (D)	(D)	:::	491,594	:::
Ground waterorganizations acre-feet	2 164	2 164		:::	:::		:::
From other organisations in the basin organizations receiving	20 40,392	10 14,621	10 25,771		:::		
Total leaving conveyance systemsorganizations	352 1,147,302	279 388,906	72 (D)	(D)	:::	3 483,820	
Conveyance loss in basinorganizations acre-feet	334 194,536	264 58,911	69 (D)	(D)	:::	3 106,041	:::
Conveyed to another drainage basinorganizations							
To drainage basin numberD. B. No							
Delivered for use in the basinorganizations	351 952,766	279 329,995	71 (D)	1 (D)		3 377,779	
To farm irrigation water usersorganizations	351 945,046	279 329,624	71 (D)	(D)		3 374,879	:::
To domestic water usersorganizations	10 3,618	371	3,247			2,900	:::
For other useorganizations acre-feet	4,102	:::	4 , 102	:::	:::	:::	:::
Velivered to other irrigation organizations delivering	10 40,392	2 6,806	8 33,586	:::		2 7,774	:::
SIZE OF ORGANIZATION, 1959							
Size of organization (number of farm irrigation water users: None	12 186 108 35 13 4 1	8 182 83 9 1	(D) (D) (D) (D) (D)	(D) (D) (D) (D) (D) (D)		 1 1	
Size of organization (acre-feet of water delivered directly to farms): Organizations Organizations	8 101 105 86 49 9	4 94 87 67 31	(D) (D) (D) (D) (D) (D)	(D) (D) (D) (D)		 1 1	
Size of organization (acre-feet of water conveyed): organizations. None organizations. 1 to 299 acre-feet organizations. 300 to 99 acre-feet organizations. 1,000 to 2,999 acre-feet organizations. 10,000 to 29,999 acre-feet organizations. 10,000 to 29,999 acre-feet organizations. 30,000 to 99,999 acre-feet organizations. 100,000 or more acre-feet organizations.	7 94 99 85 61 12	4 88 82 66 42 1	(D) (D) (D) (D) (D) (D)	(D) (D) (D) (D) (D) (D)		 1 1 	:::

D Data not shown to avoid disclosure of information for individual organizations. NA Not available.

			Rio Grande ab	ove Fort Quitman	, Texas (V-C)		
Item (For definitions and explanations, see text)		Mut	ua1		U. S. Bureau o	f Reclamation	Commercial.
(, or wer intercois and explanations, see text)	All types	Unincorporated	Incorporated	District	Projects and storage systems operated by bureau	Operated by water users	Indian, State, city, and other
Irrigation organizationsorganizations 1959	203 304	124 204	7 5 93	3 5	1	 NA	
Service area, 1959: Area served, as reported							
by organizations	573,350	94,377	440,913	38,060		•••	
by organizationsacres Water users served, 1959, totalwater users	419,622 3,425	76,603 627	304,959 2,609	38,060 189			
Farm irrigation water users	3,278 147	627	2,462 147	189			:
TYPE OF SERVICE, 1959							
all water directly from surface and ground							
water sourcesorganizations Total water conveyedacre-feet	183 679,547	116 154,182	65 500,449	24,916	:::1		::
Water deliveredacre-feet To farm and residential users	551,414	137,337	391,974	22,103			
onlyorganizations acre-feet	171 423,491	115 135,194	54 266,194	22,103			::
To farm and residential users and other irrigation organizationsorganizations	11	1	10				
Water to farm and residential usersacre-feet	71,747	2,048	69,699				
Water to other irrigation organizationsacre-feet	34,982	95	34,887				
To other irrigation organizations	34,902	,	34,007				1
onlyorganizations acre-feet	21,194	:::	21,194		:::		::
Part of water from other organizationsorganizations	5	1	4		il		
Total water conveyed	37,318 13,495	1,350 975	35,968	•••		***	
From other irrigation organizationsacre-feet	23,823	375	12,520 23,448	•••			::
Water deliveredacre-feet To farm and residential users	34,079	1,200	32,879	•••			
onlyacre-feet	34,079	1,200	32,879		:::		::
To farm and residential users and other irrigation organizations organizations Water to farm and residential							
water to other irrigation							
organizationsacre-feet To other irrigation organizations						• • • •	
onlyorganizations							
ll of water from other organizationsorganizations	12	7					
Total water conveyed	32,353 26,426	10,226 9,047	22,127 17,379	•••			::
onlyorganizations	12 26,426	9,047	5 17,379		:::		::
To farm and residential users and other irrigation organizationsorganizations							
Water to farm and residential usersacre-feet				•••			
Water to other irrigation organizations acre-feet.							
To other irrigation organizations onlyorganizations							
acre-feet lo water conveyedorganizations							
WATER FROM OTHER SOURCES	3		1	1	1	•••	•••
Organizations reporting no water from other sources used on the land served by the							
organizationorganizations scres served	134 347,810	80 39 , 029	270,721	28,060	:::		::
acres irrigated water delivered to farms (acre-feet)	296,654 382,120	34,658 86,538	223,936 273,479	38,060 22,103	:::		::
acre-feet per acre brganizations reporting water from other	1.3	2.5	1.2	0.6			
sources used on land served by the organizations.	65	44	21				l
Geres served acres irrigated	225,540 122,968	55,348 41,945	170,192		:::		::
water delivered to farms (acre-feet) acre-feet per acre	171,973	60,951 1.5	111,022				::
NEW CAPITAL INVESTMENT, 1950-1959							
Expenditures for additional new works and equipment for irrigation and drainage, January 1, 1950-December 31, 1959organizations	104	66	35	2	1		
By U. S. B. R	2,322,000 674,833	80,863	353,970	240,000	2,322,000		::

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State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

			Rio Grande al	oove Fort Quitman	, Texas (V-C)		
Item (For definitions and explanations, see text)		Mut	ual		U. S. Bureau c	f Reclamation	Commercial,
CONTRACTOR OF CAPACITOR OF CONTRACTOR	All types	Unincorporated	Incorporated	District	Projects and storage systems operated by bureau	Operated by water users	Indian, State, city, and othe
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959							
otal entering conveyance systemsorganizations acre-feet	200 693,042	124 155,157	74 512,969	2 24,916			:
From another drainage basinorganizations acre-feet							:
From drainage basin							
From sources within basinorganizations	188 693,042	117 155,157	69 512,969	2 24,916	:::		:
Surface waterorganizations acre-feet	184 677,934	115 150,997	502,021	24,916		•••	
Ground waterorganizations	15,108	4,160	10,948				
From other organizations in the basin organizations receiving	17,100	4,100	10,946]
acre-feet	56,176	10,601	45,575		:::		
otal leaving conveyance systemsorganizations acre-feet	200 693,042	124 165,663	74 502,463	24,916			
Conveyance loss in basinorganizations acre-feet	185 137,299	111 18,174	72 116,312	2,813			
Conveyed to another drainage basinorganizations							
To drainage basin numberD. B. No	•••				:::		
Delivered for use in the basinorganizations	199	124	73	2			
To farm irrigation water usersorganizations	555,743 199	147,489 124	386,151 73	22,103 2	:::		
acre-feet To domestic water usersorganizations	554,093 2	147,489	384,501 2	22,103	:::	•••	
acre-feet For other useorganizations	1,650	:::	1,650	:::	:::	***	
acre-feet						•••	
Velivered to other irrigation organizations delivering acte-feet	12 56,176	1 95	11 56,081				
SIZE OF ORGANIZATION, 1959	30,170	"	36,061			•••	
ze of organization (number of farm							
irrigation water users): Noneorganizations	7	2	3	1	1		
1 to 3 water usersorganizations 4 to 9 water usersorganizations	62 79	58 52	4 26		:::1		
10 to 29 water usersorganizations	28	11	17				
30 to 99 water usersorganizations 100 to 299 water usersorganizations	21 5	1	20	···i			
300 to 999 water usersorganizations 1,000 or more water usersorganizations	1		1		:::		
ize of organization (acre-feet of water lelivered directly to farms):							
None	43	28	2 15	1	1		
300 to 999 acre-feetorganizations 1,000 to 2,999 acre-feetorganizations	73 38	57 29	15 9	1	:::1		
3,000 to 9,999 acre-feetorganizations	34	10	24				
10,000 to 29,999 acre-feetorganizations 30,000 to 99,999 acre-feetorganizations	10		9		:::		
100,000 or more acre-feetorganizations	• • • •	• • • •					
ze of organization (acre-feet of mater conveyed):					į į		
Noneorganizations 1 to 299 acre-feetorganizations	3 38	27	1 11	1	1	***	
300 to 999 acre-feetorganizations 1,000 to 2,999 acra-feetorganizations	74 35	56 27	18		:::		
3,000 to 9,999 acre-feetorganizations	38	14	24				
10,000 to 29,999 acre-feetorganizations 30,000 to 99,999 acre-feetorganizations	13 1	:::	12 1				
100,000 or more acre-feetorganizations	ī		1				

NA Not available.

			Arl	cansas River (VI-	B)		
Item (For definitions and explanations, see text)		Mut	ual		U. S. Bureau	of Reclamation	Commercial.
(10) Weiling and explanations, see certy	All types	Unincorporated	Incorporated	District	Projects and storage systems operated by bureau	Operated by water users	Indian, State, city, and other
Irrigation organizationsorganizations 1959	319 427	214 326	104 97			NA.	
Service area, 1959: Area served, as reported by organizations	475,714	62,992	(D)				(1
by organizationsacres	431,485	54,120	(D)				(1
Water users served, 1959, total	8,179 6,905 1,205 69	1,414 977 433 4	(D) (D) (D)	:::		:::	I) I) I)
TYPE OF SERVICE, 1959							
All water directly from surface and ground water sources organizations. Total water conveyed aere-feet	271 1,188,787 954,820	213 190,083 162,117	57 (D) (D)			:::	(I
acre-feet	572,717	155,948	(D)	:::			(1
To farm and residential users and other irrigation organizations organizations Water to farm and residential	12	2	10				
users	229,382 152,721	753 5,416	228,629 147,305				
To other irrigation organizations onlyorganizations							
acre-feet							
Part of water from other organizationsorganizations Total water conveyedacre-feet	147 ,7 35		2 147,735	:::			::
From surface and ground water sourcesacre-feet	124,558		124,558				
From other irrigation organizationsacre-feet Water deliveredacre-feet To farm and residential users	23,177 121,175	:::	23,177 121,175			:::	:
onlyorganizations							::
To farm and residential users and other irrigation organizationsorganizations Water to farm and residential	2		2				
usersacre-feet Water to other irrigation	68,229		68,229 52,946	•••			
organizations	52,946		32,946				
acre-feet							
All of water from other organizationsorganizations Total water conveyedacre-feet Water deliveredacre-feet	44 182,490 163,203	96 91	182,394 163,112				
To farm and residential users onlyorganizations acre-feet	163,203	1 91	43 163,112				::
To farm and residential users and other irrigation organizationsorganizations							
Water to farm and residential usersacre-feet Water to other irrigation							
organizationsacre-feet To other irrigation organizations							
onlyarganizations							::
No water conveyedorganizations WATER FROM OTHER SOURCES	2	•••	-				
Organizations reporting no water from other sources used on the land served by the							
organizationorganizations	294 390,771 354,102	200 57,696 49,654	93 (D) (D)			•••	[] (1) (1)
water delivered to farms (acre-feet) acre-feet per acre	821,883 2,3	134,218	(D) (D)	:::			(1
Organizations reporting water from other sources used on land served by the			(5)				
organizationorganizations acres served	23 84,943	14 5,296	79,647	:	:::		
acres irrigated water delivered to farms (acre-feet) acre-feet per acre	77,383 207,479 2.7	4,466 20,690 4.6	72,917 186,789 2.6	:::	:::		::
NEW CAPITAL INVESTMENT, 1950-1959							
Expenditures for additional new works and equipment for irrigation and drainage, January 1, 1950-lecember 31, 1959organizations By U. S. B. R	121 2,304,051	77 249,745	2,054,306	:::			::

			Arl	kansas River (VI-	3)		
Item (For definitions and explanations, see text)		Mut	lual		U. S. Bureau	of Reclamation	Commercial
(FOR DEFINITIONS and explanations, see wext)	All types	Unincorporated	incorporated	District	Projects and storage systems operated by bureau	Operated by water users	Indian, State, city, and other
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959							
Total entering conveyance systemsorganizations acre-feet	317 1,3 1 3,345	214 190,083	102 (D)	:::	:::	***	(D)
From another drainage basinorganizations acre-feet	2 45,528		2 45,528		:::		:::
From drainage basin,	.,						
From sources within basinorganizations acre-feet	273 1,267,817	213 190,083	59 (D)				(D)
Surface waterorganizations acre-feet	271 1,264,822	211 189,348	59 (D)				(D)
Ground waterorganizationsacre-feet	2,995	735	2,260				
From other organizations in the basin organizations receiving	46	1	45				
acre-feet	205,667	96	205,571				
Total leaving conveyance systemsorganizations acre-feet	317 1,313,345	214 184,763	(D)	:::			(D)
Conveyance loss in basinorganizations acre-feet	293 203,088	194 25,691	98 (D)		:::	:::	(D)
Conveyed to another drainage basinorganizations acre-feet							
To drainage basin numberD. B. No	:::		:::		:::	***	:::
Delivered for use in the basinorganizations	317	214	102				(D)
To farm irrigation water usersorganizations	1,110,257 317	159,072 214	(D) 102	:::			(D)
acre-feet To domestic water usersorganizations	1,029,362 14	154,908 4	(D) 10	:::	:::		
For other useorganizations	4,169 8	1,884	2,285	:::		:::	1 (D)
acre-feet Pelivered to other ungation	76,726	2,280	(D)			•••	(5)
organizations organization delivering acte-feet	14 205,667	2 5,416	12 200,251				
SIZE OF ORGANIZATION, 1959	,	,,,,,,			i		
Size of organization (number of farm							
irrigation water users): Noneorganizations	3	1	(D)				(D)
1 to 3 water usersorganizations 4 to 9 water usersorganizations	137 92 47	132 71 8	(D) (D)		:::		(D) (D) (D) (D) (D) (D)
10 to 29 water usersorganizations 30 to 99 water usersorganizations	23	2	(D)	:::	:::		(D
100 to 299 water usersorganizations 300 to 999 water usersorganizations	11 6		(D)		:::	:::	
1,000 or more water usersorganizations							
Size of organization (acre-feet of water delivered directly to farms);			(-)				(D)
Noneorganizations 1 to 299 acre-feetorganizations	115	109	(D)	:::	:::		(D)
300 to 999 acre-feetorganizations 1,000 to 2,999 acre-feetorganizations	82 60	71 27	(D)			:::	(D)
3,000 to 9,999 acre-feetorganizations 10,000 to 29,999 acre-feetorganizations	41 12	5 2	(D)			:::	(D) (D) (D) (D) (D) (D)
30,000 to 99,999 acre-feetorganizations 100,000 or more acre-feetorganizations	6	:::	(D) (D)				(D) (D)
Size of organization (acre-feet of							
water conveyed): Noneorganizations	2		(D)				(D
1 to 299 acre-feetorganizations 300 to 999 acre-feetorganizations	104 74	98 68	(D) (D)	:::	:::		(D)
1,000 to 2,999 acra-feetorganizations 3,000 to 9,999 acre-feetorganizations	71 44	36 10	(D) (D)	:::	:::		(D)
10,000 to 29,999 acre-feetorganizations 30,000 to 99,999 acre-feetorganizations	14	2	(D)				(D) (D) (D) (D) (D) (D) (D)
100,000 or more acre-feetorganizations	2	111	(D)			•••	(D)

D Data not shown to avoid disclosure of information for individual organizations. NA Not available.

			Flatte River exc	luding South Pla	tte River (VI-D)		
Item (For definitions and explanations, see text)		Mut	ual		U. S. Bureau c	f Reclamation	Commercial.
(FOT definitions and explanations, see text)	All types	Unincorporated	Incorporated	District	Projects and storage systems operated by bureau	Operated by water users	Indian, State, city, and other
Irrigation organizationsorganizations 1959	71 81	66 78	4			NA.	
Service area, 1959:	81	78				NA.	
Area served, as reported by organizationsacres	65,265	58,165	7,100				
Area irrigated, as reported							
by organizationsacres	64,865	57,765	7,100	•••		•••	
Water users served, 1959, totalwater users Farm irrigation water userswater users	169 169	159 159	10 10		:::		::
Residential water userswater users Other water userswater users							
TYPE OF SERVICE, 1959							1
All water directly from surface and ground							
water sourcesorganizations	70	66	. 3				l .
Total water conveyedacre-feet Water deliveredacre-feet	355,057 280,019	290,188 243,499	(D) 36,520		:::		(D
To farm and residential users					1		1
onlyorganizations acre-feet	68 280,019	66 243,499	36,520				::
To farm and residential users and other	,						
irrigation organizationsorganizations Water to farm and residential				•••		•••	
usersacre-feet			• • • •				
Water to other irrigation organizationsacre-feet							
To other irrigation organizationsorganizations							
scre-feet					:::		::
Part of water from other							
organizationsorganizations Total water conveyedacre-feet	1,575		1,575				::
From surface and ground water							
From other irrigation organizationsacre-feet	1,575	:::	1,575		:::		l ::
water delivered		:::			:::		::
To farm and residential users onlyorganizations							l
acre-feet					:::		
To farm and residential users and other irrigation organizationsorganizations	1		1				
Water to farm and residential usersacre-feet							l
Water to other irrigation organizationsacre-feet							
To other irrigation organizations					i l		1
onlyorganizations acre-feet				***			
All of water from other organizationsorganizations							
Total water conveyedacre-feet							::
Water deliveredacre-feet To farm and residential users	•••			• • • •		•••	••
onlyorganizations							
To farm and residential users and other				***		•••	
irrigation organizationsorganizations Water to farm and residential							
usersacre-feet							۱
Water to other irrigation organizationsacre-feet							ļ
To other irrigation organizations	•••	•••	• • • •			•••	
onlyacre-feet	•••		:::		:::		::
No water conveyedorganizations			:::		:::		::
WATER FROM OTHER SOURCES							
Organizations reporting no water from other sources used on the land served by the							
organizationorganizations	62	60	2				
acres served acres irrigated	58,925 58,525	51,825 51,425	7,100 7,100	•••	:::	•••	::
water delivered to farms (acre-feet)	260,683	224,163	36,520				::
acre-feet per acre Organizations reporting water from other	4.4	4.3	5.1	• • • •			
sources used on land served by the	_						
organizationorganizations acres served	7 34,000	6,340	27,660		:::		::
acres irrigated water delivered to farms (acre-feet)	33,340 58,060	6,340 19,336	27,000 38,724			•••	
water delivered to farms (acre-feet) acre-feet per acre	1.7	19,336	1.4		:::		::
NEW CAPITAL INVESTMENT, 1950-1959							
Expenditures for additional new works and							
confirment for invigation and dualness			ĺ				
January 1, 1950-December 31, 1959organizations By U. S. B. Rdollars	35	33	1	***	:::		
By water users organizationsdollars	64,605	38,590	(D)				(D)

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			Platte River exc	cluding South Plat	te Hiver (VI-D)		Martin Committee of the
Item	-	Mut	ual		U. S. Bureau c	of Reclamation	
(For definitions and explanations, see text)	All types	Unincorporated	Incorporated	District	Projects and storage systems operated by bureau	Operated by water users	Commercial, Indian, State, city, and other
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959							
Total entering conveyance systemsorganizations acre-feet	71 356,632	66 290 , 188	(D)	:::	:::		(a)
From another drainage basinorganizations					:::		
From drainage basin							
From sources within basinorganizations	71 356,632	66 290,188	4 (D)		:::		(D)
Surface waterorganizations	71 356,632	66 290,188	(D)		:::		(D)
Ground waterorganizationsacre-feet	330,032		•••				:::
From other organisations in the basin organisations receiving							
Total leaving conveyance systemsorganizations acre-feet	71 356,632	66 290,188	4 (D)		:::		1 (D)
Conveyance loss in basinorganizations acre-feet	66 54,649	64 46,689	7,960	:::	:::	:::	
Conveyed to another drainage basinorganizations acre-feet	3 21,964		2 (D)				(D)
To drainage basin number	21,964			:::			(1)
Delivered for use in the basinorganizations acre-feet	68 280,019	66 243,499	2 36 , 520				
To farm irrigation water usersorganizations acre-feet	68 280,019	66 243,499	36,520 36,520				•••
To domestic water usersorganizations	• • •	• • • •	***	:::	:::	:::	:::
For other useorganizations acre-feet	•••		•••				
Delivered to other irrigation organisations					:::		:::
SIZE OF ORGANIZATION, 1959							
Size of organization (number of farm irrigation water users). None	2 64 4 1	63 3 	(D) (D) (D) (D)		:::	····	(D) (D) (D) (D)
Size of organization (acre-feet of water delivered directly to farme): organizations (acre-feet) organizations (but for the feet) organizations (but for feet) organizations (but feet) organization	2 2 6 30 25 5 1	25 30 25 3	(D) (D) (D) (D) (D) (D) (D)		:::	::: ::: :::	(D) (D) (D) (D) (D) (D)
Size of organization (acre-feet of water conveyed): organizations None organizations 1 to 299 acre-feet organizations 1,000 to 2,999 acre-feet organizations 1,000 to 2,999 acre-feet organizations 10,000 to 29,999 acre-feet organizations 10,000 to 29,999 acre-feet organizations 00,000 to 99,999 acre-feet organizations 100,000 or more acre-feet organizations	2 1 6 25 29 7 1	 1 6 25 29 5	(D) (D) (D) (D) (D) (D)		:::		(D) (D) (D) (D) (D) (D)

D Data not shown to avoid disclosure of information for individual organizations. NA Not available.

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

		South Pla	atte River above (Daging Station ne	ear Paxton, Nebrasi	ka (VI-E)	
Item (For definitions and explanations, see text)		Mut	ual		U. S. Bureau	of Reclamation	A
,	All types	Unincorporated	Incorporated	District	Projects and storage systems operated by bureau	Operated by water users	Commercial, Indian, State, city, and other
Irrigation organizationsorganizations 1959	409 452	101 124	294 314	6 5	1	1 NA	7 8
Service area, 1959: Area served, as reported					-		
by organizationsacres Area irrigated, as reported	1,138,844	62,491	942,004	115,091	•••	(D)	19,258
by organizationsacres Water users served, 1959, totalwater users	1,059,057	59,072	880,676	105,897 894		(D)	13,412
Farm irrigation water users water users. Residential water users water users. Other water users water users	16,175 12,520 3,602 53	1,397 896 492 9	12,310 10,212 2,063 35	894 887 5 2	:::	(D) (D)	1,574 525 1,042 7
TYPE OF SERVICE, 1959							
All water directly from surface and ground water sources. organizations. Total water conveyed	231 1,931,609 1,553,771	68 101,170 85,231	155 1,408,166 1,116,326	118,210 63,459	268,580 268,580		5 35,483 20,175
To farm and residential users and other	573,774	63,871	429,270	63,459			17,174
irrigation organizationsorganizations Water to farm and residential	33	2	30				1
water to other irrigation	341,430	4,610	333,924	•••		•••	2,896
organizationsacre-feet To other irrigation organizations	234,642	11,166	223,371	***		•••	105
onlyorganizations acre-feet	403,925	5,584	129,761		268,580		
Part of water from other organizations. organizations. Total water conveyed	43 698 , 744	5 4,198	35 648,203	45,813	:::	(D)	1 530
sourcesacre-feet From other irrigation organizationsacre-feet	232,530 466,214	1,053 3,145	460,574 187,629	1-228,997 274,810	:::	(D) (D)	1-100 630
Water deliveredacre-feet To farm and residential users onlyorganizations	604,713	3,890	566,047	34,376		(D)	400
To farm and residential users and other	149,191	3,890	144,901	•••		•••	400
irrigation organizationsorganizations Water to farm and residential usersacre-feet	15 193,689		179,430	14,259		1 (D)	
Water to other irrigation organizationsacre-feet To other irrigation organizations	233,157		213,040	20,117		(D)	
onlyorganizations	28,676		28,676				
All of water from other organizationsorganizations Total water conveyedacre-feet Water deliveredacre-feet	128 491,862 434,771	28 31,926 28,321	99 407,106	1 52,830 29,018	:::		
To farm and residential users onlyorganizations	113	26	377,432 86	1			•••
To farm and residential users and other	313,036	20,350	263,668	29,018			•••
irrigation organizatiousorganizations Water to farm and residential usersacre-feet	15	2	13	• • • • • • • • • • • • • • • • • • • •		•••	•••
Water to other irrigation organizations	65,976 55,759	6,889 1,082	59,087	• • • •	'''		
To other irrigation organizations onlyorganizations	,		,	•••			
acre-feet No water conveyedorganizations					:::		:::
WATER FROM OTHER SOURCES	· j		,	-			-
Organizations reporting no water from other sources used on the land served by the							
organizationorganizations acres served acrea irrigated	195 464,479 430,430	53 30,983 29,852	137 339,449 314,985	93,647 85,193		(D) (D) (D)	19,558 10,112
water delivered to farms (acre-feet) acre-feet per acre	710,789 1.6	53,293	579,438 1.8	77,708		(D)	9,637 1.0
Organizations reporting water from other sources used on land served by the							
organizationorganizations. acres served acres irrigated water delivered to farms (acre-feet) acre-feer acre	192 657,327 617,435 893,437	46 31,508 29,220 41,907	144 604,275 567,411 822,262 1.4	21,444 20,704 29,018			3,300 3,300 3,230 1.0
NEW CAPITAL INVESTMENT, 1950-1959						·	
Expenditures for additional new works and equipment for irrigation and drainage. January 1, 1950-becember 31, 1959 organizations. By U. S. B. R	101 29,905,197 2,122,674	19 64,214	76 1,743,252	2 13,410,358 235,688	16,494,839 	1 (D) 234,688	3 79,520

		South Pla	itte River above C	laging Station nea	Paxton, Nebraska (VI-E)			
Item (For definitions and explanations, see text)		Mut	tual		U. S. Bureau o	f Reclamation	Commercial,	
(FOI del Historia din explanation)	All types	Unincorporated	Incorporated	District	l'rojects and storage systems operated by bureau	Operated by water users	Indian, State, city, and other	
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959								
Total entering conveyance systemsorganizations acre-feet	404 2,166,056	101 102,223	290 1,870,657	1-110,787	268,580	(D)	7 35,383	
From another drainage basinorganizations acre-feet From drainage basinD, B. No	5 309,145	:::	38,464		268,580		2,101	
From sources within basinorganizations	275	73	191					
acre-feet Surface waterorganizations	1,856,911	102,223	1,832,193	1-110,787		(D)	33,282	
acre-feet Ground waterorganizations	1,844,421	102,073	1,823,493	1-110,787	:::	(D)	29,642	
Bcre-feet	12,490	150	8,700				3,640	
From other organizations in the basin organizations receiving acre-feet	171 956,159	33 35,071	134 592,818	3 327,640	:::	1 (D)	1 630	
Total leaving conveyance systemsorganizations acre-feet	404 2,166,056	101 119,462	290 1,813,950	5 196,726		(D)	7 35,908	
Conveyance loss in basinorganizations acre-feet	346 464,282	96 17,391	238 348,229	5 88,862		(D)	7 9,800	
Conveyed to another drainage basinorganizations	1		1					
acre-feet To drainage basin number	3,492	:::	3,492	:::	:::		:::	
Delivered for use in the basinorganizations	394	101	282	. 5		. 1	6	
acre-feet To farm irrigation water usersorganizations	1,698,282	102,071	1,462,229 279	107,864	:::	(D)	26,108 6	
acre-feet To domestic water usersorganizations	1,613,641 75	95,200 24	1,398,848 46	106,726	:::	(D)	12,867	
acre-feet For other useorganizations acre-feet	23,455 31 61,186	4,410 5 2,461	11,432 21 51,949	10 2 1,138	•••	1 (D)	7,603 3 5,638	
Delivered to other impation								
organizationsorganizations delivering acre-feet	72 956 , 159	17,832	63 649,525	20,117	268,580	(D)	1 105	
SIZE OF ORGANIZATION, 1959								
Size of organization (number of farm irrigation water users):								
Noneorganizations 1 to 3 water usersorganizations	22 56	4 42	15 13	1	1	(D) (D)	1	
4 to 9 water usersorganizations 10 to 29 water useraorganizations	94 134	32 15	61 115			(D) (D)	1	
30 to 99 water users organizations 100 to 299 water users organizations	74 24	8	66 21			(D) (D)		
300 to 999 water usersorganizations 1,000 or more water usersorganizations	5	:::	3	1	:::	(D) (D)	 1	
Size of organization (acre-feet of water	***	•••		•••		(D)		
delivered directly to farms); Noneorganizations	20	2	15	1	1	(D)	1	
1 to 299 acre-feetorganizations 300 to 999 acre-feetorganizations	53 76	33 30	19 44		:::	(D) (D)	1 2	
1,000 to 2,999 acre-feetorganizations 3,000 to 9,999 acre-feetorganizations	120 101	32 4	86 95	1	:::	(D) (D)	1 2	
10,000 to 29,999 acre-feetorganizations. 30,000 to 99,999 acre-feetorganizations. 100,000 or more acre-feetorganizations.	32 7		29 6	3 1		(D) (D) (D)		
Size of organization (acre-feet of water conveyed);						(2)		
Noneorganizations 1 to 299 acre-feetorganizations	8 41	28	6 13	1		(D) (D)	1	
300 to 2,999 acre-feetorganizations 1,000 to 2,999 acre-feetorganizations	69 110	31 31	37 79			(D) (D)	i	
3,000 to 9,999 acre-feetorganizations	117	10	103		[:::	(D) (D)		
10,000 to 29,999 acre-feetorganizations 30,000 to 99,999 acre-feetorganizations	41 21	1	37 18	2	:::	(D)	1	
100,000 or more acre-feetorganizations	2		1		1	(D)		

D Data not shown to avoid disclosure of information for individual organizations.

Destribute from to avoid unsequence of an executive of an executive of surface water withdrawn by irrigation organizations. The net effect was to increase the available surface water supply in the basin or State.

State Table 5.-NUMBER OF IRRIGATION ORGANIZATIONS, TYPE OF SERVICE, NEW CAPITAL INVESTMENT,

	Item		Colorado,	, total		Colorado I Fork, Ea	River direct, gle River, Blu and Fraze (IV-D-1,	ie River, Mudo er River	k, Roaring ly Creek,
	(For definitions and explanations, see text)			Size of or	ganization, 1	by total water	conveyed		
		0-999 acre-feet	1,000- 9,999 acre-feet	10,000- 99,999 acre-feet	100,000 or more acre-feet	0-999 acre-feet	1,000- 9,999 acre-feet	10,000- 99,999 acre-feet	100,000 or more acre-feet
Numbe	r of organizationsorganizations	906	858	161	8	135	125	25	
	TYPE OF SERVICE								
	ater directly from surface and ground sourcesorganizations tal water conveyedacre-feet	795 321,357	686 2,278,882	124 2,931,087	1,758,272	114 54,279	115 337,600	20 314,628	828.66
Wa	ter deliveredacre-feet	285,931	1,944,145	2,329,497	1,392,482	48,888	293,190	226,507	427,40
	To farm and residential users onlyorganizations acre-feet	789 282,256	655 1,810,221	1,383,165	79,702	113 48,312	289,769	19 226,507	:
	To farm and residential users and other irrigation organizations.	, 4	27	33			,	1	·
	irrigation organizationsorganizations Water to farm and residential usersacre-feet	865	82,779	480,834	782,813	:::	:::		288,6
	Water to other irrigation organizationsacre-feet To other irrigation organizations onlyorganizations	666 3	40,916 4	368,597 4	208,557	···			138,7
D4	acre-feet	2,144	10,229	96,901 22	321,410	576	3,421	•••	
To	of water from other organizationsorganizations tal water conveyedacre-feet	31 14,086	36 139,131	757,194	121,635	14 5,926	17,696	97,631	
	From surface and ground water sourcesacre-feet From other irrigation organizationsacre-feet	1,716 12,370	76,842 62,289	231,070 526,124	106,458	4,534	15,162 2,534	8,642 88,989	
Wa	ter deliveredacre-fect	12,174	126,320	637,199	98,815	5,212	15,349	54,131	
	To farm and residential users onlyorganizations acre-feet	12,174	90,845	186,214	:::	5,212	15,349	54,131	
	To farm and residential users and other irrigation organizationsorganizations		6	12	,	·	·	1	l .
	Water to farm and residential users		18,280	195,437	54,369				
	To other irrigation organizations onlyorganizations		10,895 1	233,172	44,446		:::		
477	acre-feet		6,300	22,376					
ALL O TO	f water from other organizations organizations	54 25,281	136 490,016	301, 137		5 857	6,525	45,9 87	
₩a	ter deliveredacre-feet To farm and residential users onlyorganizations	21,922	439 ,22 2 127	255,260		763	5,221	35,746	
	acre-feet	21,189	395,492	142,819	:::	763	5,221	7,578	
	To farm and residential users and other irrigation organizationsorganizations	2	9	6				1	
	irrigation organizations	592 141	22,944 20,786	67,583 44,858			-::	24,648 3,520	
	To other irrigation organizations onlyorganizations		• • • •						
No we	acre-feet ter conveyedorganizations	26	•••	•••			•••	•••	
NO WA	WATER FROM OTHER SOURCES	20	•••			-		•••	
Organ	izations reporting NO water from other sources used								ŀ
on 1	and served by the organizationorganizations acres served	679 176,825	677 741.556	704,577	364.511	107 25,931	110 63,382	20 69,508	61.2
	acres irrigated	131,531	667,453	649,103	334,696	22,038	59,594	67,665	60,
Organ	izations reporting water from other sources used and served by the organizationorganizations	197	175	48		25	13	5	
	acres served	78,491	348,364	632,822		7,731	11,658	61,152	
	acres irrigated NEW CAPITAL INVESTMENT, 1950-1959	55,258	297,708	541,021		6,033	10,598	57,492	
	ditures for additional new works and								
equi Janu	pment for irrigation and drainage, ary 1, 1950-December 31, 1959organizations	379	414	104	6	65	25	22	
	dollars	3,034,840	1,773,066	19,518,215	35,511,484	98,905	219,350	1,009,524	18,441,
	WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959								
Total	entering conveyance systems in basinorganizations acre-feet	879 323,073	858 2,355,724	161 3,162,157	1,864,730	133 58,813	125 352,762	25 323,270	828,
Fr	om another drainage basinorganizations acre-feet			4,038					
_	From Drainage Basin Number								
rr	om natural sources within basinorganizations acre-feet	826 323,073	722 2,355,724	3,158,119	1,864,730	128 58,813	123 352,762	23 323,270	828,
	Surface waterorganizations	819 320,803	720 2,348,574	145 3,136,365	1,864,730	128 58,726	123 352,432	23 323,270	828
	Ground waterorganizationsacre-feet	9:	10	5		1	1	·	
Fr	om other organizations in the basinorganizations receiving	2,270 85	7,150 172	21,754 37	"i	87 19	330 10		
	acre-jeet	37,651	552,305	827,261	15,177	2,249	9,059	134,976	Í
	leaving conveyance systemsorganizations acre-feet	879 357,773	858 2,818,903	3,223,514	1,305,494	133 60,486	125 358,400	25 454,726	689,
Co	enveyance loss in basinorganizations acre-feet	801 39,498	813 367,346	146 640,477	7 386,610	124 6,199	124 46,503	21 77,733	132,
Co	onveyed to another drainage basinorganizations	1 242		3			1 1	3	
_	To drainage basin number		• • • • • • • • • • • • • • • • • • • •	15,185	:::	132	1,292	64,129	268,
De	elivered for use in the basinorganizations acre-feet	876 318,033	853 2,451,557	156 2,567,852	918,884	132 54,287	123 310,605	22 312,864	288,
	To farm irrigation water usersorganizations	875 311,192	851 2,398,594	156	797.184	132	123 307,397	299,881	171.
	To residential water usersorganizations	57	50	2,436,129 20	3	52,606 11	5	3	
	For other useorganizations	5,884	21,967	19,923	119,700	1,681	2,942	12,983	116,
p.	Arre-feet livered to other irrigation organisations organisations detivering	957	30,996	111,800	2,000	::;	266	::;	
De	acre-feet	2,951	89,126	765,904	574,413	576	2 3,421	3,520	138,
	AVERAGE DELIVERY OF IRRIGATION WATER PER ACRE, 1959								
Per a	nere irrigated, as reported by irrigation organization:acre-feet garganizations reporting NO water from other sources used	1.7	2.5	2.0	2.3	1.9	4.5	4.7	
ρ.		4.1	4.0	2.0	د.،	1.9	***	***/	
Oz	rganizations reporting NO water from other sources used on land served by the organizationorganizations	679	677	108	6	107	110	20	

AND WATER CONVEYED, BY SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUS OF 1959

											T
	San Juan and I	Colores Rivers			Green	River			Gunnison River		
	(IV-D	-2, 4)				-E)			(IV-F)		
	1,000-	10,000-	100,000		organization, b	y total water c	100,000			-	1
0-999 acre-feet	9,999 acre-feet	99,999 acre-feet	or more acre-feet	0-999 acre-feet	9,999 acre-feet	99,999 acre-feet	or more acre-feet	0-999 acre-feet	1,000-9,999 acre-feet	10,000 or more acre-feet	
101	48	14		49	69	7		200	146	13	1
95 37,163 32,206	131,628 110,773 44	13 300,191 256,568		48 27,117 24,028 48	69 206,675 175,539	7 80,167 70,939 7	:::	187 69,235 61,861	133 418,437 364,965	12 643,500 510,632	2 3 4 5 6
93 30,655 1	110,773	11 198,259 2	:::	24,028	175,539	70,939		185 60,678	131 353,787 2	107,569	1 7
383 270 1 898		31,761 26,548 					:::	213 300 1 670	8,634 2,544 	375,101 27,962	9 10 11
3 1,693 525	:::	1 22,477 17,194 5,283	:::	:::		:::		1,069 746	8 20,358 15,384	:::	12 13 14 15
1,168 1,403 3	:::	19,794	:::	•••				323 1,010 4	4,974 17,642 6		16
1,403	:::	19,794	:::			:::	:::	1,010	9,064 2 6,168		18 19 20
:::			:::				:::		2,410		21 22 23
:::	21,265 17,328 4							982 918 2	20,981 20,209 4	1 13,132 11,819	24 25 26 27
:::	17,328	:::	:::			:::	:::	918	13,208 1 495	11,819	28 29 30
	:::								6,506		31 32 33
3				. 1				7		•••	34
88 36,533 19,409	48 51,739 44,934	13 103,409 88,462	:::	8,678 7,918	64 37,874 35,528	15,844 15,844	:::	132 31,079 22,617	134 92,751 86,993	12 115,280 104,940	35 36 37
2,020 1,920		8,000 8,000		807 807	3,960 3,960	10,000 10,000	:::	60 18,430 10,734	12 13,629 10,617	4,100 2,000	38 39 40
42 63,474	26 263,208	1,297,496	:::	39 51,667	61 226,738	52 ,8 40	:::	101 178,097	85 189,248	9 350 , 473	41 42
99 37,690	47 131,626	14 317,385		48 27,117	69 206,675	80,167 1		193 69,981	146 433,821 1	643,500 	43 44 45
99 37,690	43 131,626	 14 317,385	:::	48 27,117	69 206,675	4,038 6 76,129	 	 191 69,981	1,292 140 432,529	12 643,500	45 46 47 48 49 50 51
99 37,690	131,626	317,385		48 27,117 	69 206,675	76, 129		189 69,817 2 164	432,529	12 643,500	50 51 52 53
1,168 99	21,265 47	5,283		48	69			1,305	13 25,955 146	13,132 13	52 53 54 55
37,690 93 4,474	152,891 42 24,790	2%,120 13 41,705		27,117 47 3,089	206,675 68 31,136	80,167 7 9,228		70,316 179 7,495	448,316 143 55,760	628,670 12 131,281	56 57 58 59 60 61
242 98 32,974	47 128,101	1,661		 48	69		:::	192 62,821	146 392,556		62
98 32,326 5	128,080 2	252,754 14 249,774 1	:::	24,028 48 24,028	175,539 69 175,539	70,939 7 70,939		192 62,775 5	146 390,982 3	497,389 13 491,289 2	63 64 65 66 67
115 2 533 2	21	40 3 2,940 2		:::				44 1 2 2	374 2 1,200 5	3,200 2 2,900 3	68 69 70 71
1,168	:::	26,548	:::	:::	:::	:::		970	11,460	27,962	72
1.5	2.8	2.6 13		2.7	4.4	3.0 6		1.9 132	4.0 134	4.6 12	73 74 75
1.5	2.8	2.6		2.7	4.5	4.3	•••	0.9	4.2	4.6	75

State Table 5.—NUMBER OF IRRIGATION ORGANIZATIONS, TYPE OF SERVICE, NEW CAPITAL INVESTMENT, AND WATER CONVEYED, BY SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUS OF 1959—Continued

Item	Rio Grande	above Fort Quitm	an, Texas		Arkansas River	
(For definitions and explanations, see text)			of organization, b	y total water conv		
	0-999 acre-feet	1,000-9,999 acre-feet	10,000 or more acre-feet	0-999 acre-feet	1,000-9,999 acre-feet	10,000 or mo
Number of organizations	115	73	15	180	115	
All water directly from surface and ground sourcesorganizations	106	63	14	175	77	
Total water conveyed	46,306 41,191	237,016 209,251	396,225 300,972	56,848 50,622	250,513 211,695	881 692
To farm and residential users onlyorganizations acre-feet	106 41,191	57 188,631	193,669	174	72	
To farm and residential users and other	41,191	100,031	193,009	50,257	180,100	342
irrigation organizations		14,596	57,151	269	16,285	212
Water to other irrigation organizationsacre-feet To other irrigation organizations onlyorganizations		6,024	28,958	96	15,310	131
acre-feet			21,194			
Part of water from other organizationsorganizations Total water conveyedacre-feet	857	13,202	23,259	:::		14
Total water conveyed	420	9,897 3,305	3,178 20,081			12
Water delivered	620	11,424	22,035			12
To farm and residential users and other	620	11,424	22,035			
irrigation organizationsorganizations						
Water to other irrigation organizationsacre-feet		•••	•••		:	6
To other irrigation organizations onlyorganizations acre-feet						
ll of water from other organizationsorganizations	5	7		3	38	
Total water conveyedacre-feet Water deliveredacre-feet	3,221 2,532	29,132 23,894		1,601 1,383	140,302 125,751	4
To farm and residential users onlyorganizations	5 2,532	23,89-		1,383	38 125,751	
To farm and residential users and other						3
irrigation organizationsorganizations Water to farm and residential usersacre-feet	•••					
Water to other irrigation organizations acre-feet. To other irrigation organizations only organizations	:::				:::	
acre-feet				:::	:::	
to water conveyedorganizations WATER FROM OTHER SOURCES	3			2		
water From Other Sources used						
on land served by the organizationorganizations acres served	79	+5	10	166 31,470	109	
acres irrigated	27,225 21,279	78,139 69,059	242,446 206,316	23,693	160,441 134,200	19 19
rganizations reporting water from other sources used on land served by the organizationorganizations	33 1	28		12		
acres served acres irrigated	24,669	94,158	106,713	5,173	6,440	7.
NEW CAPITAL INVESTMENT, 1950-1959	15,070	60,916	46,982	2,513	4,840	70
expenditures for additional new works and						
equipment for irrigation and drainage, January 1, 1950-December 31, 1959organizations	4.7	2.4	13	66	41	
dollars	2,512,450	123,377	361,006	79,605	305,096	1,91
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959 otal entering conveyance systems in basinorganizations						
scre-feet	112 46,726	73 246,913	399,403	178 56,848	115 250,513	1,00
From another drainage basinorganizations sore-feet	:::					45
From Drainage Basin number	107		15	175		
Surface waterorganizations	46,726 105	246,913 64	399,403	56,848 173	250,513	960
acre-feet Ground waterorganizations	45,992	241,853	390,089	55,713	250,153	958
acre-feet	734	5,360	9,314	1,135	360 360	:
From other organizations in the basin	6 3,658	10 32,437	20,081	1,601	38 140,302	63
otal leaving conveyance systemsorganizations acre-feet	112	73	15	178	115	
Conveyance loss in basinorganizations	50,384 100	273, 32 6 7 0	369,332 15	58,353 156	375,505 114	879
acre-feet Conveyed to another drainage basinorganizations	6,041	34,781	96,477	6,444	51,235	145
To drainage basin number					:::	
Delivered for use in the basinorganizations	112 44,343	73 238,545	14 272,855	178 51,909	115 324.270	734
To farm irrigation water usersorganizations acre-feet	112	73	14	178	115	
To residential water usersorganizations		238,395 1	271,355	51,736	321,035	656
For other useorganizations		150	1,500	173	1,101	2
Bere-feet Delivered to other irrigation organizations					2,134	74
acte-feet		6,024	50,152	96	15,310	190
AVERAGE DELIVERY OF IRRIGATION WATER PER ACRE, 1959			1			
er scre irrigated, as reported by irrigation organization: All organizations	1.2	1.8	1.1	2.0	2.3	
Organizations reporting NO water from other sources used on land served by the organizationorganizations	79	45	10	166	109	
acre-feet	1,4	2,1	1.0	1.9	2.2	

State Table 5.—NUMBER OF IRRIGATION ORGANIZATIONS, TYPE OF SERVICE, NEW CAPITAL INVESTMENT, AND WATER CONVEYED, BY SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUS OF 1959—Continued

	Item	Platte F	River excludir				tte River above near Paxton, Neb (VI-E)	Gaging raska
	(For definitions and explanations, see text)				ganization, t	by total water conve	eyed	
		0-999 acre-feet	1,000- 9,999 acre-feet	10,000+ 99,999 acre-feet	100,000 or more acre-feet	0-999 acre-feet	1,000-9,999 acre-feet	10,000 or more acre-feet
Number of	organizations	9	54	8		118	227	6
	directly from surface and ground sourcesorganizations	9	54	7		63	130	3 100 0
Water	water conveyedacre-feet deliveredacre-feet	23,937 3,216	224,540 190,748	106,580 86,055		26,861 23,919	465,885 381,040	1,438,86 1,148,81
5	farm and residential users onlyorganizations acre-feet	3,216	190,748	86,055		63 23,919	114 313,930	235,92
ir	farm and residential users and other rigation organizationsorganizations						14	
	Water to farm and residential usersacre-feet Water to other irrigation organizationsacre-feet					:::	43,264 17,038	298,16 217,60
То	other irrigation organizations onlyorganizations acre-feet						6,808	397,1
Part of w	ater from other organizationsorganizations			1			17	397,1
Total	water conveyedacre-feet m surface and ground water sourcesacre-feet			1,575 1,575		4,541 1_4,509	87,875	606,3
Fro	m other irrigation organizations				:::	9,000	36,399 51,476	200,6 405,6
Water	deliveredacre-feet farm and residential users onlyorganizations	:::				3,929	81,905 12	518,8
To	farm and residential users and other					3,929	55,008	90,2
	rigation organizationsorganizations Water to farm and residential usersacre-feet			1	:::	:::	12,112	181,5
.]	Water to other irrigation organizationsacre-feet			:::			8,485	224,6
To	other irrigation organizations onlyorganizations acre-feet		:::			:::	6,300	22,3
All of wa	ter from other organizationsorganizations				.,.	39	80	
Water	water conveyedacre-feet deliveredacre-feet		:::	:::		18,620 16,326	271,811 246,819	201,4 171,6
1	farm and residential users onlyorganizations acre-feet		:::	:::		37 15,593	72 210,090	87,3
	farm and residential users and other rigation organizationsorganizations					,	g	
· [Water to farm and residential usersacre-feet					592	22,449	42,9
То	Water to other irrigation organizationsacre-feet other irrigation organizations onlyorganizations	:::				141	14,280	41,3
'	acre-feet						• • • •	
No water	conveyedorganizations WATER FROM OTHER SOURCES					7	•••	
Organizat	ions reporting NO water from other sources used							
on land	served by the organizationorganizations acres served	6 1,240	49 40,425	7 17,260		57 14,669	116 214.065	251.3
7	acres irrigated	1,240	40,025	17,260		13,337	194,380	232,4
on land	ions reporting water from other sources used served by the organizationorganizations	1	5	1		53	107	
	acres served acres irrigated	145 145	6,195 6,195	27,660 27,000		19,516 18,036	215,824 204,082	425,10 398,5
	NEW CAPITAL INVESTMENT, 1950-1959	243	0,277	2.,000		10,000	201,002	270,5
	res for additional new works and							
January	t for irrigation and drainage, 1, 1950-December 31, 1959organizations	2	30	3		17	51	
2	dollars WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959	400	49,190	15,015		35,242	410,759	31,581,8
3 Total ant	water converse by inrigation organizations, 1959 sering conveyance systems in basinorganizations		E/			113	227	İ
4	acre-feet	23,937	224,540	108,155	:::	22,352	502,284	1,641,4
5	mother drainage basinorganizations acre-feet					20,389	• • • • • • • • • • • • • • • • • • • •	288,7
From r	m Drainage Basin numberD. B. No satural sources within basinorganizations		54			74	147	
Sur	face waterorganizations	23,937	224,540	108,155		1,963	502,284 147	1,352,6
	acre-feet	23,937	224,540	108,155		1,813	500,884	1,341,7
3	pund waterorganizations acre-feet			:::		1 150	1,400	10,9
From ot	her organizations in the basin organizations receiving		:::	:::		48 27,670	97 323,287	605,2
Total les	wing conveyance systemsorganizations	9	54	8		113	227	, ·
Convey	acre-feet rance loss in basinorganizations	23,937	224,540 52	108,155		49,881	772,660 197	1,343,5
9 Convey	acre-feet red to another drainage basinorganizations	332	33,792	20,525		5,426	88,415	370,4
1	drainage basin number	20,389		1,575		:	:::	3,4
Delive	ered for use in the basinorganizations	7	54	7	:::	110	224	
To	farm irrigation water usersorganizations	3,216 7	190,748 54	86,055 7		44,455 109	684,249 222	969,5
7 To	acre-feet residential water usersorganizations	3,216	190,748	86,055		40,162	639,474	934,0
3	acre-feet other useorganizations					3,871	17,379	2,2
D	sore-feet	:::	:::	:::	:::	422	27,396	33,3
Deliver	ed to other irrigation organisationsorganisations delivering acre-feet			:::		141	29 52,911	903,1
	AVERAGE DELIVERY OF IRRIGATION WATER FER ACRE, 1959	}						, ·
3 All o	irrigated, as reported by irrigation organization:	2.3	4.1	5.0		1.3	1.6	1
Organ	tations reporting NO water from other sources used and served by the organizationorganizations	2.3		2.0				
Or 1			49	5.0		57 1.5	116	l :

¹Water was transferred to the hasin and released to natural stream channels in excess of the quantity of surface water withdrawn by irrigation organizations. The net effect was to increase the available surface water supply in the basin or State.

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State Table 1.-NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS.

=				Columbia	River exclud	ing Snake Rive	er (I-C)		Snake H	
	Item (For definitions and explanations, see text)	The State	North Pacific Coast, total		Spokane River	Clark Fork	Kootenai River	Snake River, total	Total	Snake River direct
1	Total acres irrigated in Census year1959	2,576,580	2,416,000	10,000	7,000	3,000		2,406,000	142,000	14,000
2	1949 Irrigation organizationsorganizations 1959	2,167,879	2,032,585	4,972	4,174	376 5	422	2,027,613	136,872	12,178
4	1949	1,064	875	9	6	3		866	136	12
5	Service area, 1959: Farm sres reported served by organizations	2,482,113	2,288,838	11,106	8,404	2,702		277,732	73,318	6,562
6	Farm area reported irrigated by organizationsacres 1959	2,299,457	2,123,611	7,714	6,897	817		2,115,897	64,384	6,542
7	Water users served, totalwater users 1959	81,467	77,580	1,146	986	160		76,434	4,227	2,865
8	Farm irrigation water userswater users 1959	43,525	40,147	903	822	81		39,244	1,115	650
9	Residential water userswater users 1959	37,743	37,238	243	164	79		36,995	3,002	2,105
10	Other water userswater users 1959	199	195	• • •				195	110	110
	LAND IRRIGATED BY SOURCE OF WATER, 1959	450, 404	431,000	1,000	1,000			430,000	3 000	
11	Ground water sourcesscres	452,898	1,985,000	9,000	6,000	3,000		,	3,000	1, 000
1.2	Surface water sources	2,123,704	1,985,000	9,000	6,000	3,000		1,976,000	159,000	14,000
13 14	WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959 Total entering conveyance systems in basin	920 14,214,626	739 13,636,610	14 85,694	82,973	2,721		725 13,550,916	105 368,930	9 35,2 3 4
15 16	From another drainage basinorganizations acre-feet	11 140,305	10 145,835			•••		10 145,835	26,139	26,139
17	From drainage basin numberD. B. No							·		I-F-2
18 19	From natural sources within basinorganizations acre-feet	783 14,074,321	631 13,490,775	11 85,694	82,973	5 2,721		620 13,405,081	102 342,791	7 9,095
20 21	Surface waterorganizations	734 13,527,060	603 12,963,741	10 84,970	82,973	1,997		593 12,878,771	102 342,791	9,0 9 5
22 23	Ground waterorganizations	69 547,261	48 527,034	1 724		1 724		47 526,310		
24 25	From other organizations in the basin	191 2,511,850	161 2,345,257	3 lo,409	3 16,409	***		158 2,328,848	23,772	3 22,315
26 27	Total leaving conveyance systemsorganizations acre-feet	920 14,214,626	739 13,636,610	14 : 85,694	9 32,973	5 2,721		725 13,550,916	105 368,930	9 35,234
28 29	Conveyance loss in basinorganizations acre-feet	341 2,948,184	669 2,861,742	14,720	14,480	1 240	• • •	664 2,847,022	99 68,62 1	6 3,500
30 31	Conveyed to another drainage basinorganizations	12 145,657	5 80,4 2 2	52,339	52,339			3 28,083		
32	To drainage basin numberD. B. No			1-C-7						
33 34	Delivered for use in the basinorganizations acre-feet	911 11,120,785	735 10,694,446	18,635	7 16,154	5 2,481		723 10,675,811	104 300,309	8 31,734
35 36	To farm irrigation water usersorganizations acre-feet	911	735	12 17,963	7 16,040	5 1,923		723 10,442,944	104 290,895	8 27,039
37 38	To residential water nsersorganizations acre-feet	107 220,313	94 217,740	3 672	1 114	2 558		91 217,068	9,334	2 4,615
39 40	For other useorganizations acre-feet	29 15,811	27 15,799	:::				27 15,799	80	1 80
41 42	Pelivered to other impation organizations delivering are-lee(76 2,51 1 ,850	67 2,345,257	1 16,409	16,409			66 2,328,848	23,772	1 22,315
43	Average delivery of irrigation water per acre irrigated as reported by organizationsacre-feet	4.7	4.9	2.3	2.3	2.4		4.9	4.5	4.1
44 45	NEW CAPITAL INVESTMENT, 1950-1959 Expenditures for additional new works and equipment for irrigation and drainage, Jan. 1, 1950-Dec. 31, 1959	382 24,527,859	329 23,532,492	1,123,598	1,063,748	59,850	:::	321 22,408,894	55 526,969	6 445,638

101,201 ecre-feet from D. B. No. I-H-1b, 60.200 acre-feet from D. B. No. I-G-la. 13,509 acre-feet from D. B. No. I-G-2a, 93,425 acre-feet from D. B. No. I-F-3a. 233,23 acre-feet from D. B. No. I-F-4c, 2,160 acre-feet from D. B. No. I-F-1a. 135,470 acre-feet from D. B. No. I-F-3a. 24,285 acre-feet to D. B. No. I-F-1a. 21,000 acre-feet to D. B. No. I-F-3a.

BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950

	S	nake River be	low Weiser (I-H	Continued				Snake R	iver, Weiser	to King Hill	(I-F)	
			Salmon River							1	ayette River	
Total	Total	Salmon Rive Below French Creek (3a)	French Creek to Salmon (3b)	Above Salmon (3c)	Lemhi River	Pahsi- meroi River	Total	Snake River direct	Weiser River	Total	Payette River direct	North Fork
128,000	63,000 59,201	15,000 14,355	14,000 10,321	34,000	47,000 46,814	18,000	611,000	167,000	35,000 25,797	114,000 107,355	87,000	27,00
124,694	51	10	15	34,525	34	18,679	55 7,8 12	1,44,190	70	67	79,396	27,95
124	65	11	23	31	45	15	269	42	83	74	59	1
66,756	34,139	8,090	5,510	20,539	24,617	8,000	606,613	133,756	37,575	125,403	93,574	31,82
57,842	31,087	8,072	5,270	17,745	19,860	6,895	582,622	125,827	35,088	117,576	88,716	28,86
1,362	1,183	176	45	962	135	44	29,935	3,734	1,967	3,376	3,182	19
465	292	85	45	162	129	44	16,618	2,271	571	2,438	2,244	19
897	891	91		800	6		13,255	1,460	1,396	928	928	
3,000	1,000		1,000		1,000	1,000	28,000	10,000	1,000	3,000	2,000	1,0
125,000	62,000	15,000	13,000	34,000	46,000	17,000	583,000	157,000	34,000	111,000	85,000	26,0
96 333,696	52 197,711	10 19,419	15 32,260	27 146,032	34 96,590	11 41,092	228 3,762,588	40 854,633	69 151,384	65 794,495	52 703,346	91,1
:::	1,697	:::		1,697			184,960	13 521,708		137,630	137,630	:
	I-E-3d			I-E-3d				(1)			(2)	
95 333,696	50 196,014	19,419	15 32,260	26 144,335	34 96,590	11 41,092	203 3,577,628	24 332,925	68 151,384	59 656,865	46 565,716	91,1
95 333,696	50 196,014	19,419	15 32,260	26 144,335	96,590	11 41,092	201 3,534,440	22 322,724	68 151,384	59 656,845	46 565,716	91,1
:::	:::		:::		:::		43,188	3 10,201		20		
1,457	1,457	1 1,457					55 361,603	11 76,616	13 38,174	12 64,429	12 64,429	:
96 333,696	52 197,711	10 19,419	15 32,260	27 146,032	34 96,590	11 41,092	228 3,762,588	40 854,633	69	65 794,495	52 703,346	91,1
93 65,121	51 41,132	10 1,617	6,199	33,3 1 6	18,753	10 5,236	200 696,477	31 143,199	14,699	59 113,912	104,885	9,0
					1,697		50,422	26,443	26,139	93,425	93,425	:
					I-E-3e			(3)	I-E-1	I-F-1	I-F-1	
97 268,575	52 156,579	17,802	15 26,061	27 112,716	76,140	35,856	226 3,015,689	39 684,991	110,546	587,158	52 505,036	82,1
96 263,856	52 151,862	10 15,823	15 26,061	27 109,978	76,138	11 35,856	226 2,860,600	39 679,203	66 100,792	65 578,367	52 496,245	82,1
4,719	4,717	3 1,979	:::	2,738	1 2		43 146,979	1,960	7,954	8,077	13 8,077	:
:::		:::			:::		8,110	3 3,828	1,800	714	714	
1,457	1,457	1,457	:::	:::	:::		21 361,603	6 76,616	5 38,174	64,429	64,429	:
4.6	4.9	2.0	4.9	6.2	3.8	5.2	4.9	5.4	2,9	4.9	5,6	2.
49	26						89					
81,331	57,739	:::	8,705	19 49,034	22,467	1,125	8,915,717	16 660,687	18 24,845	294,451	252,517	41,9

State Table 1.-NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS,

		Snake River King Hill (I-	, Weiser to		-G))				
		KING HILL (1-	r)=continued		Sna	ke River dire	ct			
	Item (For definitions and explanations, see text)	Boise River	Bruneau River and Owybee River	Total	Total	King Hill to Milner	Milner to American Falls	Big Wood River	Upper Salmon Falls Creek and Goose Creek	Raft River
		(6)	(5, 7)			(1s)	(lb)	(2)	(3, 4)	(5)
2	Total acres irrigated in Census year	271,000 253,393	24,000 27,087	855,000 678,398	635,000 503,358	382,000 372,759	253,000 130,599	140,000 123,602	54,000 24,264	26,000 27,174
3 4	Irrigation organizationsorganizations 1959 1949	61 74	5	104 101	64 57	29 30	35 30	30 34	3 4	7 9
5	Service area, 1959: Farm area reported served by organizations	299,319	10,560	823,424	639,947	421,228	218,719	133,651	15,000	34,826
6	Farm area reported irrigated by organizationsacres 1959	294,426	9,705	744,437	595,265	389,100	206,165	120,359	15,000	13,813
7	Water users served, totalwater users 1959	20,737	121	27,582	25,824	22,298	3,526	1,393	221	144
8	Farm irrigation water userswater users 1959	11,267	71	10,378	8,771	5,616	3,155	1,326	137	144
9	Residential water userswater users 1959	9,421	50	17,196	17,049	16,678	371	63	84	
10	Other water userswater users 1959	49		8	4	4		4		
11	LAND IRRIGATED BY SOURCE OF WATER, 1959 Ground water sources									
12	Surface water sources	11,000	3,000	211,000	146,000	73,000	73,000	16,000	29,000	20,000
12	WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959	260,000	21,000	644,000	489,000	309,000	180,000	124,000	25,000	6,000
13 14	Total entering conveyance systems in basin	60 2,402,852	5 43,602	103 4,581,339	64 4,118,397	34 2,719,313	34 3,910,131	32° 749,860	3 87,200	7 20,667
15 16	From another drainage basinorganizations		10,000		37,110	2,545,691	1 2,466	2 357,675	:::	•••
17	From drainage basin numberD. B. No		I-F-5a			(1)	I-G-18	(2)		
18 19	From natural sources within basinorganizations acre-feet	51 2,402,852	33,602	96 4,581,339	58 4,081,287	25 173,622	34 3,907,665	30 392,185	87,200	5 20,66 7
20 21	Surface waterorganizations acre-feet	2,369,885	33,602	4,313,721	3,817,3 7 5	15 131,142	3,686,233	29 388,479	87,200	20,667
22 23 24	Ground waterorganizations scre-feet From other organizations in the	32,967		267,618	263,912	10 42,480	221,432	3,706	:::	•••
25	basinorganisations receiving acre-feet	19 182,384	:::	10 409,363	72,239	6 54,330	17,909	2 334,446	:	2 2,678
26 27	Total leaving conveyance systemsorganizations acre-feet	60 2,402,852	43,602	103 4,581,339	4,118,397	34 2,719,313	34 3,910, 1 31	749,860	87,200	7 20,667
28 29	Conveyance loss in basinorganizations acre-feet	418,969	5,698	1,259,233	1,018,618	27 757,405	261,2 1 3	26 231,026	8,330	1,259
30 31	Conveyed to another drainage basinorganizations acre-feet	388,793	• • •	73,759	417,925	90,731	4 2,838,241	13,509	37,110	:::
32	To drainage basin number	(4)				(5)	(6)	1-F-1	I-G-la	
33 34	Delivered for use in the basinorganizations acre-feet	59 1,595,090	37,904	102 3,248,347	64 2,681,854	34 1,871,177	33 810,677	30 505,325	41,760	7 19,408
35 36	To farm irrigation water usersorganizations acre-feet	59 1,464,782	37,456	102 3,209,758	64 2,657,175	1,848,346	33 808,829	30 491,655	41,520	7 19,408
37 38	To residential water usersorganizations acre-feet	128,540	1 448	16 36,529	10 23,119	21,271	6 1,848	13,170	1 240	:::
39 40	For other useorganizations acre-feet	1,768		2,060	1,560	1,560	:::	500	:::	:::
41 42	Delivered to other ungation organizationsorganizations delivering acre-feet	10 182,384		7 409,363	72,239	54,330	17,909	334,446		1 2,678
43	Average delivery of irrigation water per acre irrigated as reported by organizationsacre-feet	5.0	3.9	4.3	4.5	4.8	3.9	4.1	2.9	1.4
44	NEW CAPITAL INVESTMENT, 1950-1959 Expenditures for additional new works and equipment for irrigation and dreinage, Jan. 1, 1950-Dec. 31, 1959organizations dollars dollars	26 7,932,459	3,295	41 11,343,316	20 11,220,932	12 867,578	10 10,353,354	21 85,071	:::	1 37,313

^{137,110} scre-feet from D. B. No. I-G-3, 2,508,581 scre-feet from D. B. No. I-G-1b.
228,015 scre-feet from D. B. No. I-G-1a, 329,660 scre-feet from D. B. No. I-G-2a.
31,014 scre-feet from D. B. No. I-G-1a, 329,660 scre-feet from D. B. No. I-G-2a.
31,014 scre-feet from D. B. No. I-G-1a, 2180 scre-feet from D. B. No. I-G-2a.
3129,70 scre-feet to D. B. No. I-F-3a, 253,233 scre-feet to D. B. No. I-F-6.
22,466, scre-feet to D. B. No. I-G-1b, 28,015 scre-feet to D. B. No. I-G-2a, 60,250 scre-feet to D. B. No. I-G-1a, 25,08,581 scre-feet to D. B. No. I-G-2a.

BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950-Continued

				Snake	River above Ame	rican Falls (I-	н)					
	Sns	ake River direc	t			Henrys Fork			Independer	nt basins		
Total	Total	American Falls to Heise	Above Heise	Portneuf River and Salt River	Total	Henrys Fork	Upper Teton River	Total	Big Lost River	Little Lost River	Maid Lake, Camas Creek, Medicine Lodge, and Birch Creeks	
		(la)	(1b)	(2, 4)		(3a)	(3b)		(6a)	(65)	(6c, 6d)	
798,000 654,531	511,000 390,456	495,000 382,929	16,000 7,527	37,000 35,362	132,000 140,448	96,000 102,168	36,000 38,280	118,000 88,265	43,000 36,927	14,000 10,779	61,000 40,559	
295 366	122 176	118 170	4	75 67	71 101	42 52	29 50	27 24	5 7	8	14 9	
774,377	484,484	477,504	6,980	27,493	168,639	127,206	41,433	93,761	35,855	7,195	50,711	
724,454	448,636	442,906	5,730	25,310	163,678	122,745	40,933	86,830	32,835	5,315	48,680	
14,690	11,098	11,062	36	691	2,162	1,831	331	739	426	41	272	
11,133	7,942	7,906	36	556	1,896	1,571	325	739	426	41	272	
3,542	3,147	3,147		129	266	260	6					1
- 1		,		·	•••							1
188,000	114,000	107,000	7,000	8,000	8,000	4,000	4,000	58,000	8,000	8,000	42,000	
610,000	397,000	388,000	9,000	29,000	124,000	92,000	32,000	60,000	35,000	6,000	19,000	1
294 4,937,957	123 3,461,688	119 3,428,170	33,518	75 94 ,71 5	70 964,978	42 859,537	29 117,173	27 429,483	5 161,815	19,095	14 248,573	1
34,634	12,907	1 12,907		2 11,440	23,194	1 11,732	6 23,194	:::	:::	:::		1
		I-H-3a		III-E-la		I-H-3b	(3)					1
218 4,903,323	70 3,448,781	67 3,415,263	3 33,518	57 83,275	64 941,784	41 847,805	93,979	27 429,483	161,815	19,095	14 248,573	1
202 4,687,819	69 3,442,248	66 3,408,988	3 33,260	54 82,155	935,904	847,505	20 88,399	18 227,512	5 161,815	14,057	51,640	2 2
25 215,504	6,533	6,275	1 258	1,120	5,880	300	3 5,580	201,971	:::	5,038	11 196,933	2
89 1,534,110	70 1,492,697	69 1,486,307	1 6,390	17 28,793	2 12,620	12,620						2
294 4,937,957	123 3,461,688	119 3,428,170	33,518	75 94,715	70 964,978	42 859,537	29 117,173	27 429,483	5 161,815	19,095	248,573	
281 822,691	117 573,424	113 570,616	2,808	70 17,830	69 122,025	106,771	29 15,254	26 109,412	5 60,467	3,347	14 45,598	2
3,800				3,800	12,907	12,907	1 11,732			:::		3
				III-E-la	I-H-1a	I-H-la						3
291 4,111,466	122 2,888,264	118 2,857,554	30,710	73 73,085	70 830,046	739,859	29 90,187	27 320,071	101,348	8 15,748	14 202,975	- 1
291 4,081,691	122 2,866,140	118 2,835,430	30,710	73 71,919	70 823,561	42 733,386	29 90,175	27 320,071	5 101,348	15,748	202,975	3:
25 24,226	15 17,237	15 17,237		6 504	6,4 8 5	6,473	1 12	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •			31
5,549	3 4,887	3 4,887	:::	6 662	:::	:::	:::		:::	:::	:::	31
36 1,534,110	24 1,492,697	23 1,486,307	6,390	11 28,793	1 12,620	1 12,620	:::			:::	:::	44
5.6	6.4	6.4	5.4	2.8	5.0	6.0	2.2	3.7	3.1	3.0	4.2	4
137 1,622,892	63 905,691	62 904,191	1,500	19 105,364	44 172,404	31 144,653	13 27,751	11 439,433	3 6,947	10,500	4 421,986	

State Table 1.-NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950-Continued

						Bear Rive	r (III-E)		
			Northwest		Ве	ear River direct	t		
	Item (For definitions and explanations, see text)	Great Basin, total	Great Salt Lake Basin III-D	Total	Total	Below Alexander	Above Alexander	Upper Malad River	Little Bear River
1	Total acres irrigated in Census year1959	161,000	6,000	155,000	138,000	(la) 74,000	(1b) 64,000	(2)	(3)
2	1949	135,294	2,086	133,208	116,344	63,489	52,855	16,864	
4	Irrigation organizationsorganizations 1959 1949	192	2 3	180 189	148 156	90 94	58 63	32 33	:::
5	Service area, 1959: Farm area reported served by organizationsacres 1959	193,275	(D)	(D)	(D)	101,409	(D)	(D)	
6	Farm area reported irrigated by organizationsaeres 1959	175,846	(D)	(D)	(D)	94,512	(D)	(D)	
7	Water users served, totalwater users 1959	3,887	(D)	(D)	(D)	1,821	(D)	(D)	
8	Farm irrigation water userswater users 1959	3,378	(D)	(D)	(D)	1,712	(D)	(D)	
9	Residential water userswater users 1959	505		(D)	(D)	105	(D)	(D)	
10	Other water userswater users 1959	4		(D)	(D)	4			•••
11	LAND IRRIGATED BY SOURCE OF WATER, 1959 Ground water sources	22,000	3,000	19,000	10,000	5,000	5,000	9,000	
12	Surface water sources	139,000	3,000	136,000	128,000	69,000	59,000	8,000	
13 14	WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959 Total entering conveyance systems in basin	182 590,381	(D)	180 (D)	148 (D)	90 326,554	58 (D)	32 (D)	
15 16	From another drainage basinorganizations acre-feet	6,835		3 (D)	3 (D)	3 11,871	1 (D)		
17	From drainage basin numberD. B. No					(1)	I-G-3		
18 19	From natural sources within basinorganizations acre-feet	153 583,546	(D)	151 (D)	118 (D)	69 314,683	50 (D)	32 (D)	
20 21	Surface waterorganizations acre-feet	134 563,319	1 (D)	133 (D)	115 (D)	69 3 1 4,683	47 (D)	17 (D)	• • • • • • • • • • • • • • • • • • • •
22 23	Ground waterorganizations acre-feet	21 20,227	(D)	20 (D)	(D)	::: }	3 (D)	17 (D)	···
24 25	From other arganizations in the basin	30 i 166,593		30 (D)	29 (D)	23 158,715	7 (D)		
26 27	Total leaving conveyance system:organizations acre-feet	182 590,381	10,105	180 (D)	148 (D)	90 326,554	58 (D)	32 (D)	
28 29	Conveyance loss in basinorganizations	176 86,442	2 (D)	174 (D)	142 (D)	86 51,904	57 (D)	32 (D)	
30 31	Conveyed to another drainage basinorganizations acre-feet	9 77,600	1 (D)	(D)	6 (D)	74,235	1 (D)	1 (D)	
32	To drainage basin number		III-D-1			(2)	III-E-la	III-E-2	
33 34	Delivered for use in the basinorganizations acre-feet	181 426,339	(D)	179 (D)	148 (D)	91 200,415	57 (D)	32 (D)	
35 36	To farm irrigation water usersorganizations acre-feet	181 423,754	(D)	179 (D)	147 (D)	91 200,071	57 (D)	32 (D)	:::
37 38	To residential water usersorganizations acre-feet	13 2,573		13 (D)	10 (D)	2 332	8 (D)	3 (D)	
39 40	For other useorganizations acre-feet	2 12	:::	(D)	(D)	2 12			:::
41	Delivered to other impation organisations delivering	10		10 (D)	9 (D)	158,715	2 (D)	:::	
43	acre-feec Average delivery of irrigation water per acre irrigated as reported by organizationsacre-feet	166,593	(D)	(D)	(D)	2.1	(D)	(D)	
44	NEW CAPITAL INVESTMENT, 1950-1959 Expenditures for additional new works and equipment for irrigation and drainage, Jan. 1, 1950-Dec. 31, 1959	53	2	51	41	35	7	10	
45	dollars	995,367	(D)	(D)	(D)	577,852	(D)	(D)	

D Data not shown to avoid disclosure of information for individual organizations. 45,00e acre-feet from D. B. No. 111-E-1b, 3,800 acre-feet from D. B. No. 1-B-2, 35 acre-feet, from D. B. No. IIII-E-1b. *26,560 acre-feet to D. B. No. 1-B-2.

State Table 2.-NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950

			r = = T				
	Item (For definitions and explanations, see text)	Idaho, total	Columbia River (excluding Yakima River) and Snake River below Weiser	Snake River, Weiser to King Hill	Snake River, King Hill to American Falls	Snake River above American Falla	Bonneville Basin and Bear River
			(I-C and I-E)	(I-F)	(I-C)	(I-H)	(III-D and 111-E)
1	Irrigation organizations, total numberorganizations 1959	927 1,064	119 145	234 269	104	295 366	18 19
3	Area irrigated as reported by organizationsacres 1959	2,299,457 1,896,032	72,098 65,506	582,622 482,842	744,437 614,117	724,454 596,490	175,84 137,07
5	Farm water users served directlywater users 1959	43,525	2,018	16,618	10,378	11,133	3,37
6	Total water conveyedacre-feet 1959	16,726,476	494,805	4,124,191	4,990,702	6,472,067	756,974
	TYPE OF ORGANIZATION						
7 8 9	Mutual: Unincorporatedorganizations 1959 1949 Farm area irrigated directlyacres 1959 Farm water users served	497 648 211,622	93 124 45,987	113 151 42,466	68 70 31,109	118 193 58,300	105 110 33,760
11	directly	2,589 1,035,785	490 297,969	634 234,115	380 133,816	627 258,984	458 110,90
12	Incorporatedorganizations 1959	367	13	91	28	164 156	76
13 14 15	1949 Farm area irrigated directlyacres 1959 Farm water users served	348 1,295,602	7,853	85 153,249	539,423	454,241	(D)
16	directly water users 1959 Total water conveyedacre-feet 1959	20,979 10,150,336	109 91,582	3,642 1,189,466	7,851 3,574,976	6,478 4,720,187	(D
17 18	Districtorganizations 1959	53 54	11 10	28 27	6 7	9	
19 20	Farm area irrigated directlyacres 1959 Farm water users served	676,471	(D)	380,907 12,317	105,658	170,899	(D)
21	directlywater users 1959 Total water conveyedacre-feet 1959	18,136 5,021,558	(D)	2,690,610	1,045,609	1,221,610	(D
22 23 24	U.S. Bureau of Reclamation; projects and storage systems operated by bureauorganizations 1959 1949 Farm area irrigated directlyacres 1959	4 4 76,767	 1	1 4	2 1 68,247	1 1 8,520	::
25	Farm water users served directlywater users 1959 Total water conveyedacre-feet 1959	714 253,019			647 236,301	67 16,718	
27	U. S. Bureau of Reclamation; operated by water users	12	5	3	3		
28 29	1949 Farm area irrigated directlyacres 1959	350,674	7,307	NA 216,531	NA (D)	NA	N. (D
30 31	Farm water users served directlywater users 1959 Total water conveyedacre-feet 1959	. 8,836 2,758,367	1,146 24,025	5,168 1,604,093	(D)		(D
32	U. S. Bureau of Indian Affairsorganizations 1959	3		1		2 4	::
34 35	Farm area irrigated directlyacres 1959 Farm water users served	(D)		6,000		(D)	
36	directlywater users 1959 Total water conveyedacre-fect 1959	(D)	:::	25 10,000		(D)	::
37 38	Commercialorganizations 1959	1 3	1				::
39 40	Farm area irrigated directlyacres 1959 Farm water users served	(D)	(D)		•••		
41	directlywater users 1959 Total water conveyedacre-feet 1959	(D) (D)	(D)	***	:::		::
42 43	Stateorganizations 1959		:::	***			
44 45	Farm area irrigated directlyacres 1959 Farm water users served	•••		•••			
46	directlywater users 1959 Total water conveyedacre-fect 1959		:::	***			::
47 48	Cityorganizations 1959	2	1 1			1	
49 50	Farm area irrigated directlyacres 1959 Farm water users served	(D)	(a)			(D)	
51	directlywater users 1959 Total water conveyedacre-feet 1959	(D) (D)	(D) (D)	•••	:::	(D)	::

 $[\]bar{\rm D}$ Data not shown to avoid disclosure of information for individual organizations. NA Not available.

State Table 2.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Continued

=							
	Item (For definitions and explanations, see text)	Idaho, total	Columbia River (excluding Yakina River) and Shake River below Weiser	Snake River, Weiser to King Hill	Snake River, King Hill to American Falls	Snake River above American Falls	Bonneville Basin and Bear River
			(I-C and I-E)	(I-F)	(I-G)	(I-H)	(III-D and III-E)
	TYPE OF SERVICE, 1959						
1 2 3 4	All water directly from surface and ground water sources	726 13,281,058 10,593,765	110 431,492 313,402	171 3,068,791 2,363,091	93 4,329,487 3,209,225	204 4,937,633 4,248,680	152 591,214 459,367
5	users onlyorganizations acre-feet	673 4,640,741	108 293,880	151 586,834	86 1,093,482	185 2,346,694	145 319,851
6 7	To farm and residential users and other irrigation organizations organizations Water to farm and residential	47	1	18	6	18	6
8	usersacre-feet	3,811,043	1,656	1,432,817	1,706,380	645,941	24,249
9	organizations acre-feet To other irrigation organizations	1,968,856	1,457	341,490	399,577	1,118,105	108,227
10	onlyorganizations acre-feet	6 173,125	16,409	1,950	9,786	137,940	7,040
11	Part of water from other organizationsorganizations	65	4	36	3	21	3
12 13	Total water conveyedacre-feet From surface and ground water	2,296,945	41,623	978,921	634,650	661,723	10,908 1-845
14	sourcesacre-feet From other irrigation organizationsacre-feet	871,115 1,425,830	9,356 32,267	631,356 347,565	251,852 382,798	1-8,241 669,964	11,753
15 16	Water deliveredacre-feet To farm and residential	2,006,786	40,403	942,307	423,383	598,808	1,885
17	users onlyorganizations acre-feet	57 1,635,569	3 18,088	33 896,997	423,383	16 295,216	3 1,885
18	To farm and residential users and other irrigation organizationsorganizations Water to farm and residential	8	1	3		5	
20	msers	283,653		27,147		256,506	
21	organizations	87,564	22,315	18,163		47,086	•••
22	onlyorganizations acre-feet	***	:::	:::	:::	:::	:::
23 24 25 26	All of water from other organizations organizations organizations organizations. Total water conveyed acre-feet water delivered acre-feet. To farm and residential	129 1,148,473 1,016,273	5 21,690 5,240	22 76,479 63,784	7 26,565 23,042	69 872,711 792,539	27 154,852 131,668
27	users onlyorganizations	113 575,119	5 5,240	63,784	23,042	56 423,396	24 59,657
28 29	To farm and residential users and other irrigation organizationsorganizations	14			• • • • • • • • • • • • • • • • • • • •	11	3
30	Water to farm residential usersacre-feet Water to other irrigation	158,849				138,164	20,685
31	organizations	280,856				229,530	51,326
32	onlyorganizations acre-feet	1,449		:::	:::	2 1,449	:::
33	No water conveyedorganizations	7		5	1	1	
	WATER FROM OTHER SOURCES						
35 36 37 38 39	Organizations reporting NO water from other sources used on land served by the organization	793 2,102,467 1,938,766 9,295,415 4.8	97 74,601 64,590 261,312 4.5	202 770,301 749,600 3,721,273 5.0	91 796,505 717,328 3,141,713 4.4	257 646,559 602,600 3,502,672 5.8	151 174,301 158,849 409,235 2.6
40 41 42 43	sources used on land served by the organizations organization acres served acres for served water delivered to farms acres for serve-feet acre-feet per acre.	119 423,745 403,650 1,710,738 4.2	21 15,251 12,936 67,544 5.2	25 194,562 191,273 879,119 4.6	11 43,724 38,314 128,295 3.3	34 129,188 123,224 581,427 4.7	30 43,320 40,203 61,912 1.5
	<u> </u>					tion orderisetions	The net effect way

Water was transferred to the basin and released to astural stream channels in excess of the quantity of surface water withdrawn by irrigation organizations. The net effect was to increase the available surface water supply in the basin or State.

State Table 2.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Continued

		T			Γ	
Item (For definitions and explanations, see text)	Idaho, total	Columbia River (excluding Yakima River) and Snake River below Weiser	Snake River, Weiser to King Hill	Snake River, King Hill to American Falls	Snake River above American Falls	Bonneville Basin and Bear River
				,		
WATER DELIVERED PER ACRE Organizations reporting No mater from Other sources used on same land: 0.1 to 0.9 acre-feet per acreorganizations. acres irrigated. 2.0 to 2.9 acre-feet per acreorganizations. 3.0 to 3.9 acre-feet per acreorganizations. 4.0 to 4.9 acre-feet per acreorganizations. 4.0 to 4.9 acre-feet per acreorganizations. 5.0 to 5.9 acre-feet per acreorganizations. 6.0 to 6.9 acre-feet per acreorganizations. 6.0 to 6.9 acre-feet per acreorganizations. 7.0 to 7.9 acre-feet per acreorganizations. 8.0 to 9.9 acre-feet per acreorganizations. 8.0 to 9.9 acre-feet per acreorganizations. 10.0 or more acre-feet per acreorganizations. acres irrigated.	31 29,101 117 126,289 146,782 11,12 240,322 39,046 408,167 216,875 37,79,827 95,036	2 397 10 3,037 16 19,313 6 15,988 8,024 11 3,660 6 2,366 7 7 2,176 4 4 1,375	2,557 23,478 33 15,888 331,588 28,827 249,158 335,272 27 66,748 118 20,043 8,235	3,570 1,571 21,931 18,182 697,575 21,609 201,1409 205,362 205,	14 5,042 33 27,738 41,729 41,729 31,239 32,439 35,733 26 143,762 46,539 46,539 38,822	9 17,595 41 50,993 52,074 6,903 16,903 7,743 7,743 1,170 10,772 733
SIZE OF ORGANIZATION						
Size of organization (number of farm irrigstion water users served directly): None	15	1	7	,	_]
None.	249 582 268 1,563 227	53 123 35 203 20	53 127 73 439 56	34 79 34 194 17	56 127 77 459 86	53 126 49 268 53
# water users 30 to 99	3,621 106 5,790 38	276 4 247 4	894 27 1,419 9	298 6 389 5	1,378 51 2,819 14	831 19 947
#mter users 300 to 999organizations #mter users 1,000 or moreorganizations #mater users #mater users #mater users	6,055 15 8,771 9 19,862	895 1 300 1 1,861	1,626 4 2,741 5 14,776	818 2 1,541 4 7,351	2,044 6 3,330 1 1,000	1,365 370
Size of organization (acre-feet of water delivered directly to farms):						
Noneorganizations 1 to 299 acre-feetorganizations acre-feetorganizations 300 to 999 acre-feetorganizations	15 140 22,611 187	2,870 28	7 35 5,727 38	2 16 2,783 24	5,789 36	1 31 5,442 61 37,653
acre-feet 1,000 to 2,999 acre-feetorganizations 3,000 to 9,999 acre-feetorganizations	111,155 212 379,667 225	17,791 34 63,531 34	21,566 53 99,221 59	12,918 25 44,316 18	91,958 85	81,841 33 170,404
acre-feet 10,000 to 29,999 acre-feetorganizations acre-feet 30,000 to 99,999 acre-feetorganizations	1,254,319 88 1,547,955	68,428	333,543 27 474,616	98,726 8 154,674	44	70,30
100,000 or more acre-feetorganizations acre-feet	1,979,238 20 5,711,208		372,317 8 3,293,402	220,915 6 2,735,676	8	
Size of organization (scre-feet of water conveyed):	7		5	,	1	
Noneorganizations 1 to 299 acre-feetorganizations 200 to 999 acre-feetorganizations	115 20,231 171	2,308	29 5,394 32	11 1,898 26	32	4,319
300 to 999 acre-feetorganizations acre-feet 1,000 to 2,999 acre-feetorganizations	101,339 208	17,790	18,054	13,561	19,414	32,22
3,000 to 9,999 acre-feetorganizations	369,929 230	62,408	85,060 65	42,037	88,204 76	3
10,000 to 29,999 ecre-feetorganizations	1,265,329 108	227,264	333,935 34	11	. 51	.1
acre-feet	1,814,468	: 3	565,034 13	[6	32	
acre-feet 100,000 or more scre-feetorganizations acre-feet	2,853,797 30 10,353,325	1]	550,226 10 3,804,120	7	15	

State Table 3.-LAND IRRIGATED BY SOURCE OF WATER, BY DRAINAGE BASINS: CENSUS OF 1959

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	Item (For definitions and explanations, see text)	Idaho, total	Columbia River (excluding Yakima River) and Snake River below Weiser	Snake River, Weiser to King Hill	Snake River, King Hill to American Falls	Snake River above American Falls	Bonneville Basin and Bear River
			(I-C and I-E)	(I-F)	(I-G)	(I-H)	(III-D and III-E)
1	Total acres irrigatedfarms reporting	25,383	1,281	8,545	7,020	6,735	1,802
2	acres	2,576,580	152,028	611,477	855,111	797,503	160,461
3	Acres irrigated by sprinklersfarms reporting	2,180	598	365	176	753	288
4	acres	215,595	11,876	17,921	34,256	126,764	21,778
- 5	Sprinklers onlyfarms reporting	1,085	532	111	50	315	77
6	acres	119,943	11,948	6,038	16,809	76,907	8,241
	LAND IRRIGATED, BY SOURCE OF WATER TO INDIVIDUAL FARMS, 1959						
7	Ground water sources on fermfarms reporting	2,557	108	490	881	853	225
8	acres	386,945	4,157	27,609	173,532	162,084	19,563
9	Ground water sources on ferm only farms reporting	1,266	67	189	480	430	100
10	acres	241,673	1,480	11,634	115,992	102,277	10,290
11	Surface sources on farmfarms reporting	2,749	717	871	364	567	230
12	acres	327,281	111,952	82,964	44,946	65,243	22,176
13	Surface sources on farm onlyfarms reporting	1,882	656	520	203	379	124
14	acres	245,191	97,159	57,314	31,298	45,871	13,549
15	Irrigation organization sourcesfarms reporting	22,051	532	7,802	6,270	5,876	1,571
16	ccres	1,862,354	35,919	500,904	636,633	570,176	118,722
17	Irrigation organization sources	2,002,55		· ·	ĺ		· ·
1.7	onlyfarms reporting	20,306	479	7,259	5,846	5,374	1,348
18	acres	1,662,383	24,076	450,761	581,958	505,145	100,443
19	Both farm ground water sources	178	26	39	62	44	7
20	and surface sources	40,483	5,953	5,947	14,316	13,288	979
20	Both irrigation organization and farm ground	10,100			, "		
21	water or farm surface sourcesfarms reporting	1,751	53	538	429	508	223
22	acres	386,850	23,360	85,821	111,547	130,922	35,200
_		l	1			L	

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950

				Idaho, total			
Item		Mut	ıal		U. S. Bureau o	f Reclamation	Commercial,
(For definitions and explanations, see text)	All types	Unincorporated	Incorporated	District	Projects and storage systems operated by hureau	Operated by water users	Indian, State, city, and other
rrigation organizationsorganizations 1959	927 1,064	497 648	367 348	53 54	4 4	12 11	:
ervice area, 1959: Area served, as reported		244,106	1,417,700	691,544	84,162	359,654	44,60
by organizationsacres	2,482,113	211.622	1,295,602	676,471	76,767	350,674	38,9
by organizationsacres	2,299,457 81,467	3,808	44,139	30,000	714	14,521	2,8
ter users served, 1959, total	43,525 37,743 199	2,589 1,207 12	20,979 23,124 36	18,136 11,713 151	714	8,836 5,543 142	1,6
TYPE OF SERVICE, 1959						11	
Il water directly from surface and ground water sources	726 13,281,058 10,593,765	428 891,655 748,495	7,717,437 6,203,673	4,153,655 3,232,076	2 253,019 230,104	2,571,507 1,931,092	265,2 179,4
To farm and residential users onlyorganizations acre-feet	673 4,640,741	717,010	2,135,385	1,378,825	230,104	530,166	179,4
To farm and residential users and other irrigation organizationsorganizations	47	5	36	6		3	
Water to farm and residential usersacre-feet	3,811,043	17,468	2,472,289	1,321,286		950,640	
Water to other irrigation	1,968,856	13,193	1,433,484	522,179		450,286	
To other irrigation organizationsorganizations onlyacre-feet	173,125	1 824	162,515	9,786	:::	:::	
art of water from other organizationsorganizations Total water conveyedacre-feet	65 2,296,945	21 68,144	35 1,383,836	9 844,965	:::	186,860	
From surface and ground water sources	871,115 1,425,830 2,006,786	14,790 53,354 59,938	240,108 1,143,728 1,086,962	616,217 228,748 859,886		85,659 171,698	
To farm and residential usersorganizations	57 1,635,569	21 59,938	28 753,884	821,747		171,698	
To farm and residential users and other irrigation organizationsorganizations	1,633,369		7	1			
Water to farm and residential usersacre-feet	283,653		271,653				
Water to other irrigation organizations	87,564		61,425	26,139	1		
onlyorganizations	:::	:::					
All of water from other organizationsorganizations Total water conveyed	129 1,148,473 1,016,273	75,986 65,953	1,049,063 942,974	6,866	:::	:::	
To farm and residential users onlyorganizations acre-feet	113 575,119	62,907	504,866	6,86			
To farm and residential users and other irrigation organizations	14	4	. 10		.		
Water to farm and residential usersacre-feet	158,849	359	158,490		.		
Water to other irrigation organizationsacre-feet	280,856	1,238	279,618		.		
To other irrigation organizations organizations		1		.:			
No water conveyedorganizations	1,449	1,449		.	i 2	•••	
WATER FROM OTHER SOURCES Organizations reporting no water from other sources used on the land served by the	793 2,102,467	3 444 7 213,28	302 5 1,261,949		0 84,162		3 20
acres served acres served acres irrigated water delivered to farms (acre-feet) acre-feet per acre	1,938,766 9,295,415 4.8	184,23 726,68	5 1,153,872 7 5,678,31	2 508,89	6 230,104	1,053,23	3 24
Organizations reporting water from other sources used on land served by the organizations. acres served. acres served. water delivered to farms (acre-feet) per acre.	119 423,74; 403,65; 1,710,73; 4	31,18 27,74 3 125,90	178,70 7 163,54 5 580,82	7 183,85 6 182,35 1 848,01	2	133,96 133,96 598,71	1 30
NEW CAPITAL INVESTMENT, 1909-1999 Expenditures for additional new works and equipment for irrigation and drainage, January 1, 1990-lecember 12, 1999 organizations. By U. S. B. R dollars by water unears organizations dollars.	38 18,471,04 6,056,81	4	7.60	0 1,769,1	32 34 16,694,29	2 1,776,75 0 1,776,75	4

				Idaho, total			
Item (For definitions and explanations, see text)		Mut	cual		U. S. Bureau	of Reclamation	
(FOT definitions and explanations, see beaut)	All types	Unincorporated	Incorporated	District	Projects and storage systems operated by bureau	Operated by water users	Commercial, Indian, State, city, and other
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959							
Total entering conveyance systemsorganizations acre-feet	920 14,214,626	497 906,445	363 7,957,557	4,832,313	2 253,019	12 2,758,367	265,292
From another drainage basinorganizations acre-feet	140,305	2 3,889	7 25,215	101,201	:::	101,201	10,000
From drainage basin		VI-C	I-H	I-F			· · · :
From sources within basinorganizations acre-feet	783 14,074,321	902,556	7,932,342	4,731,112	253,019	2,657,166	255,292
Surface waterorganizationsacre-feet	734 13,527,060 69	415 802,362 40	7,741,803 23	4,669,429	58,898	2,606,459	254,568
Ground waterorganizations acre-feet	547,261	100,194	190,539	61,683	194,121	50,707	724
From other organizations in the basin organizations receiving acre-feet	191 2,511,850	69 129,340	112 2,192,779	9 189,245	:::	:::	1 486
Total leaving conveyance systemsorganizations acre-feet	920 14,214,626	497 1,019,081	363 8,213,294	52 4,463,454	2 253,019	12 2,308,071	6 265,778
Conveyance loss in basinorganizations acre-feet	841 2,948,184	456 160,315	334 1,799,290	46 879,7 8 9	22,915	640,540	85 ,87 5
Conveyed to another drainage basinorganizations acre-feet	12 145,657	800	8 105,076	39,781	:::	1 11,957	:::
To drainage basin numberD. B. No	911		359	50			
Delivered for use in the basinorganizations acre-feet	11,120,785 911	494 857,966 494	6,308,928 359	3,543,884	230,104	1,655,574	179,903
To farm irrigation water useraorganizations acre-feet	10,884,661	851,977	6,215,646	3,413,447	230,104	1,612,172	173,487
To domeatic water usersorganizations acre-feet	220,313	5,705	80,921	127,271		40,332	6,416
For other useorganizations acre-feet	15,811	284	12,361	3,166	:::	3,070	:::
Delivered to other irrigation organizations delivering. acre-feet	76 2,511,850	12 16,704	56 1,937,042	8 558,104	:::	3 450,286	:::
SIZE OF ORGANIZATION, 1959		,		,		,	
Size of organization (number of farm irrigation water users):	Λ.						
Noneorganizations	23 249	8 230	10 17	3 2	2		:::
1 to 3 water usersorganizations. 4 to 9 water usersorganizations. 10 to 29 water usersorganizations.	268 219	205 50	59 156	10	:::	:::	
30 to 99 water usersorganizations 100 to 299 water useraorganizations	106 38	4	87 30	12 8	1	2 3	2
300 to 999 water usersorganizations 1,000 or more water usersorganizations	15 9		5	9 5		3	"i
Size of organization (acre-feet of water delivered directly to ferms):							
Noneorganizations 1 to 299 acre-feetorganizations	15 140	3 120	8 17	2 2	2		i
300 to 999 acre-feetorganizations 1,000 to 2,999 acre-feetorganizations	187 212	161 128	24 79	1 4	:::	1	1 1 1 1
3,000 to 9,999 acre-feetorganizations 10,000 to 29,999 acre-feetorganizations	225 88	79 6	131 71	14 9	 1	1	1 1
30,000 to 99,999 acre-feetorganizations 100,000 or more acre-feetorganizations	40 20	:::	30 7	10			 1
Size of organization (acre-feet of water conveyed):	_			_			
Noneorganizationa 1 to 299 acre-feetorganizations	7 115	105	10			::;	
300 to 999 acre-feetorganizations 1,000 to 2,999 acre-feetorganizations	171 208	147 142	21 62	1 4	:::	1	2
3,000 to 9,999 acre-feetorganizations 10,000 to 29,999 acre-feetorganizations	230 108	93	123 86	12 12	"i		 2 1
30,000 to 99,999 acre-feetorganizations 100,000 or more acre-feetorganizations	58 30	2	44 17	12		6	i "i

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

	Columbia Riv	er above Snake Ri	ver excluding Yak	ima Kiver, and S	nake River below #	ereer, Idano (1-	, and 1-0)
Item (For definitions and explanations, see text)		Mut	ıal		U. S. Bureau o	f Reclamation	Commercial,
(164 delinations one organic in all 1	All types	Unincorporated	Incorporated	District	Projects and storage systems operated by bureau	Operated by water users	Indien, State, city, and other
Irrigation organizationsorganizations 1959	119 145	93 124	13 7	11 10	···	5 NA	2 3
dervice area, 1959: Area served, as reported by organizations	84,424	52,904	9,799	(D)		7,736	(D)
by organizationsacres	72,098	45,987	7,853	(D)		7,307	(D)
fater users served, 1959, total. water users. Farm irrigation water users. water users. Residential water users. water users. Other water users. water users.	5,373 2,018 3,245 110	1,334 490 844	222 109 113	(D) (D) (D)	:::	3,510 1,146 2,254 110	(D) (D) (D)
All water directly from surface and ground water sources. organizations. Total water conveyed	110 431,492 313,402	90 290,964 232,437	87,333 34,964	(D) (D)		5 24,025 22,389	(D) (D)
onlyorganizations acre-feet To farm and residential users and other	293,880	232,437	15,442	(D)		22,389	(D)
irrigation organizationsorganizations Water to farm and residential	1		1				
Water to other irrigation	1,656		1,656				
organizationsacre-feet To other irrigation organizations onlyorganizations acre-feet	1,457 1 16,409		1,457 1 16,409		-::		
Part of water from other organizations	41,623	2 5,548		2 (D)	:::	:::	:::
acurcea	9,356 32,267 40,403	433 5,115 5,188		(D) (D) (D)		:::	
onlyorganizations	3 18,088	5,188		(D)	:::		
To farm and residential users and other irrigation organizations organizations Water to farm and residential users	1			1			
Water to other irrigation organizationsacre-feet To other irrigation organizations	22,315			(D)			
onlyorganizations acre-feet		:::	:::	:::		:::	
All of water from other organizationsorganizations Total water conveyed	21,690 5,240	1,457 1,312	4,249 3,442	(D)			(D
onlyrganizations acre-feet To farm and residential users and other	5,240	1,312	3,442				(D
irrigation organizationsorganizations Water to farm and residential				•••			
users							
To other irrigation organizations only organizations acre-feet		:::					
No water conveyed	97 74,601 64,590	74 39,488	10 7,964 6,018		:::	5 14,237 7,307	(p
water delivered to farms (acre-feet) acre-feet per acre Organizations reporting water from other	261,312 4.0	173,358	13,826	(D)		17,675 2.4	(D
sources used on land served by the organizations organization. acres served acres irrigated organizations acres frequency acres (regarded) acres frequency acres (recrease organizations).	21 15,251 12,936 67,544 5.2	13,416 11,101 62,829	2 1,835 1,835 4,715 2.6		: :::	:::	
NEW CAPITAL INVESTMENT, 1950-1959 Expenditures for additional new works and equipment for irrigation and dreinage, January 1, 1950-becember 31, 1959	63 844,351 806,216	50 64,623	5 85,983	(D	{ } 	844,351 632,360	(I

	Columbia Ri	ver above Snake Ri	ver excluding Yal	cima River, and S	nake River below W	eiser, Idaho (I-	2 and I-E)
Item (For definitions and explanations, see text)		Mut	bual .		U. S. Bureau	of Reclamation	Communical
(for definitions an explanations, see text)	All types	Unincorporated	Incorporated	District	Projects and storage systems operated by bureau	Operated by water users	Commercial, Indian, State, city, and other
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959							
Total entering conveyance systemsorganizations acre-feet	119 454,624	93 291,397	13 91,157	11 (D)	:::	5 24,025	(D)
From another drainage basinorganizations acre-feet	26,139		1 3,824	1 (D)	:::		:::
From drainage basin,	• • • •	•••		•••		•••	
From sources *ithin basinorganizations acre-feet Surface waterorganizations.	113 428,485	92 291,397	87,333	(D)	:::	24,025 5	(D)
Ground water	112 427,761	92 291,397	87,333	(D)	:::	24,025	:::
acre-feet	724	:::			:::	:::	(D)
From other organizations in the basin organizations receiving acre-feet	7 40 ,1 81	6,572	1 425	(D)	:::		(D)
Total leaving conveyance systemsorganizations acre-feet	119 454,624	93 297,969	13 73,716	11 (D)	:::	5 24,025	2 (D)
Conveyance loss in basinorganizations acre-feet	104 83,341	87 59,032	11 16,335	6 (D)	:::	2 1,556	:::
Conveyed to another drainage basinorganizations acre-feet	52,339		1 36,841	(D)	:::		:::
To drainage basin number	•••			•••			
Delivered for use in the basinorganizations acre-feet	116 318,944	93 238,937	12 20,540	9 (D)	:::	22,469	(D)
To farm irrigation water usersorganizations acre-feet	116 308,858	93 236,187	18,541	(D)	:::	17,675	(D)
To domestic water usersorganizations acre-feet For other useorganizations.	10,006	2,750	1,999	(D)	:::	4,714 1	(D)
acre-feet	80	:::		(D)		80	:::
Delivered to other irrigation organisations delivering organisations ore-feet	3 40,181		2 17,866	1 (D)	:::		:::
SIZE OF ORGANIZATION, 1959							
Size of organization (number of farm irrigation water users):							
Noneorganizations 1 to 3 water usersorganizations	3 53	2 50	1 3	(D) (D)	:::		(D) (D)
4 to 9 water usersorganizations 10 to 29 water usersorganizations	35 18	33	2 7	(D) (D)	:::		(b)
30 to 99 water usersorganizations 100 to 299 water usersorganizations 300 to 999 water usersorganizations	4 3 2	2		(D)	:::	1 2 2	(a) (b) (b) (c) (c) (c) (d)
1,000 or more water usersorganizations	1	:::		(D)	:::		(Ď)
Size of organization (acre-feet of water delivered directly to farms):							(=)
Noneorganizations 1 to 299 acre-feetorganizations 300 to 999 acre-feetorganizations	18	12	1 5	(D)	:::		(D) (D) (D) (D) (D) (D)
1,000 to 2,999 acre-feetorganizations 3,000 to 9,999 acre-feetorganizations	28 34 34	24 29 27	2 3 2	(D) (D) (D)		1 3	(5)
10,000 to 29,999 acre-feetorganizations 30,000 to 99,999 acre-feetorganizations	4	1		(D)			(D)
100,000 or more acre-feetorganizations	•••	:::		:::	:::		
Size of organization (acre-feet of water conveyed): Noneorganizations							
1 to 299 acre-feetorganizations 300 to 999 acre-feetorganizations	14 27	10 22	 4 2	(D) (D)		:::	(D)
1,000 to 2,999 acra-feetorganizations 3,000 to 9,999 acra-feetorganizations	31 40	27 33	2 4	(D) (D) (D)		1 3	(D) (D) (D) (D) (D) (D)
10,000 to 29,999 acre-feetorganizations 30,000 to 99,999 acre-feetorganizations	4 3			(D)	:::	:::	(D)
100,000 or more acre-feetorganizations	•••				•••	•••	

D Data not shown to avoid disclosure of information for individual organizations. NA Not available.

		Si	wake River, Weise:	r, Idaho to King	Hill, Idaho (I-F)		
Item (For definitions and explanations, see text)		Mut	ual		U. S. Bureau	of Reclamation	Commercial.
	All types	Unincorporated	Incorporated	District	Projects and storage systems operated by hureau	Operated by	Indian, State, city, and other
Irrigation organizationsorganizations 1959 Service area, 1959:	234 269	113 151	91 85	28 27	1 4	3 NA	3
Area served, as reported by organizations	606,613	48,655	166,427	385,531		220,195	6,000
by organizationsacres	582,622	42,466	153,249	380, 907		216,531	6,000
Water users served, 1959, total. water users. Farm irrigation water users. water users. Residental water users. water users. Other water users. water users.	29,935 16,618 13,255 62	763 634 122 7	7,956 3,642 4,299 15	21,191 12,317 8,834 40		8,364 5,168 3,164 32	25 25
TYPE OF SERVICE, 1959							
All water directly from surface and ground water sources	171 3,068,791 2,363,091 151	88 161,913 142,426	1,044,913 872,133 51	17 1,851,965 1,338,832		1,417,233 1,044,816	10,000 9,700
To farm and residential users and other	586,834	137,830	383,811	55,493			9,700
irrigation organizationsorganizations Water to farm and residential users. acre-feet.	18 1,432,817	332	13	1 200 024		2	• • • • • • • • • • • • • • • • • • • •
Water to other irrigation organizationsacre-feet	341,490	3,440	322,649 164,547	1,109,836 173,503		919,190 125,626	
To other irrigation organizations only organizations acre-feet	2 1,950	1 824	1 1,126				
Part of water from other							
organizations organizations. Total water conveyed organizations acre-feet. From surface and ground water	36 978,921	47,530	100,186	831,205		186,860	
sourcesacre-feet	631,356	7,419	4,280	619,657		124,419	
From other irrigation organizationsacre-feet Water deliveredacre-feet To farm and residential users	347,565 942,307	40,111 41,233	95,906 76,403	211,548 824,671	:::	62,441 171,698	:::
onlyorganizations	896,997	41,233	46,917	808,847		171,698	
To farm and residential users and other irrigation organizations organizations Water to farm and residential	3		2	1			
users	27,147 18,163	•••	15,147 14,339	12,000			
organizationsacre-leet To other irrigation organizations onlyorganizations	18,163		14,339	3,824			
acre-feet							
All of water from other organizationsorganizations Total water conveyed	76,479 63,784	8 24,672 21,168	12 44,367 35,756	7,440 6,860			
To farm and residential users onlyorganizations acre-feet	22 63,784	8 21,168	12 35,756	6,860			
To farm and residential users and other			,-				
irrigation organizationsorganizations Water to farm and residential usersacre-feet							
Water to other irrigation organizationsacre-feet		i l					
To other irrigation organizations onlyorganizations	***						
No water conveyedorganizations		:::		1	1		
WATER FROM OTHER SOURCES							
Organizations reporting no water from other sources used on the land served by the							
organizationorganizations acres aerved acres irrigated	202 770,301 749,599	105 42,646 36,866	73 481,316 470,818	23 234,339 229,915		97,783 94,119	1 12,000 12,000
water delivered to farms (acre-feet) acre-feet per acre	3,721,273 5.0	171,599	2,340,832 4.9	1,192,352 5.2	:::	502,616 5.3	16,490 1.4
Organizations reporting water from other sources used on land served by the organization	25	7	14	4		1	
acres served acres served acres irrigated water delivered to farms (acre-feet) acre-feet per acre	194,562 191,273 879,119 4.6	6,009 5,600 27,067 4.8	20,931 18,251 77,377 4.2	167,622 167,422 774,675 4.6	:::	130,267 130,267 592,714 4.5	
NEW CAPITAL INVESTMENT, 1950-1959							
Expenditures for additional new works and equipment for frigation and drainage. January 1, 1950-becember 31, 1999organizations. By U. S. B. R	7,709,803 1,205,914	32 35,518	40 417,651	16 924,803 752,745	6,785,000	924,803 225,314	

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

		S	nake River, Weise	r, Idaho to King	Hill, Idaho (I-F)		
Item (For definitions and explanations, see text)		Mut	tual	_	U. S. Bureau	of Reclamation	Commercial,
(10) details and expanded by, see sexty	All types	Unincorporated	Incorporated	District	Projects and storage systems operated by bureau	Operated by water users	Indian, State, city, and other
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959							
Total entering conveyance systemsorganizations acre-feet	228 3,762,588	113 169,332	1,049,193	27 2,534,063		1,604,093	10,000
From another drainage basinorganizations	5		2	2		1	1
From drainage basin, D. B. No	184,960		53,959	121,001	:::	121,001	10,000
From sources within basinorganizations acre-feet	203 3,577,628	105 169,332	74 995,234	24 2,413,062		3 1,502,892	
Surface waterorganizations acre-feet	201 3,534,440	104 169,047	73 983,114	2,382,279	:::	1,483,085	
Ground waterorganizations acre-feet	6 43,188	1 285	3 12,120	2 30,783		19,807	
From other organizations in the basin organizations receiving	55 361,603	25 64,783	23 140,273	7 156,547			
Total leaving conveyance systemsorganizations acre-feet	228 3,762,588	113 229,851	87 1,009,454	27 2, 5 13,283	:::	3 1,478,467	10,000
Conveyance loss in basinorganizationsacre-feet	200 696,477	99 29,276	75 196,338	25 470,563		3 372,622	1 300
Conveyed to another drainage basinorganizations acre-feet	50,422		3,824	3 46,598		11,957	
To drainage basin number				40,550		11,907	:::
Delivered for use in the basinorganizations acre-feet	226 3,015,689	112 200,575	86 809,292	27 1,996,122	:::	1,093,888	9,700
To farm irrigation water usersorganizations acre-feet	226 2,860,600	112 198,666	86 776,730	27 1,875,504	:::	1,055,895	9,700
To domestic water usersorganizations acre-feet	43 146,979	1,897	25 27,550	10 117,532		2 34,993	
For other useorganizations acre-feet	8,110	1 12	9 5,012	3,086		3,000	
Delivered to other irrigation organizations	21.	2	14	5		2	
acte-feel	361,603	4,264	180,012	177,327	:::	125,626	
SIZE OF ORGANIZATION, 1959 Size of organization (number of farm							
None where users organizations of 20 miles where users organizations organizations of 20 miles users organizations organizations of 20 miles users organizations organizations of 20 miles users organizations of 20 miles users organizations of 20 miles users organizations of 20 miles users organizations of 20 miles users organizations of 20 miles users organizations of 20 miles users organizations organizations organizations organizations	8 53 73 55 27 9 4 5	2 45 49 16 1	4 6 20 33 19 5 2 2	1 2 4 5 7 4 2 3	 		::: ::: ::: :::
Size of organisation (acre-feet of water delivered directly to farms):	7 35 38 53 59 27 7 8	1 29 34 27 20 2	4 4 4 25 30 20 20 2	1 2 1 9 4 5 6	1 		 1
Size of organization (acre-feet of water conveyed): organizations None	5 29 32 46 65 34 13 10	28 28 31, 23 3	3 1 4 14 36 23 3 6	1 1 6 7 7	1 		

NA Not available.

		Snak	e River, King Hil	l, Idaho to Ameri	can Falls, Idaho	(I-G)	
Item (For definitions and explanations, see text)		Mut	ual		U. S. Bureau	of Reclamation	
(10. Got have an expansion), nee beaut	All types	Unincorporated	Incorporated	District	Projects and storage systems operated by bureau	Operated by water users	Commercial, Indian, State, city, and other
Irrigation organizationsorganizations 1959	104 101	68 70	28 23	6 7	2 1	3 NA	
Service area, 1959: Area served, as reported by organizations	823,424 744,4 <i>3</i> 7	42,089 31,109	599,043 539,423	107,650	74,642	(D)	
Water users served, 1959, total	27,582 10,378 17,196 8	436 380 54 2	24,873 7,851 17,017	105,658 1,626 1,500 125	68,247 647 647 	(D) (D) (D) (D)	
TYPE OF SERVICE, 1959							
All water directly from surface and ground water sources. organizations	4,329,487 3,209,225	62 128,851 108,825	2,918,726 2,968,721	1,045,609 814,657	236,301 217,022	(D) (D)	:::
acre-feet To farm and residential users and other irrigation organizationsorganizations	1,093,482	96,883	330,816	448,761	217,022	(D)	
Water to farm and residential	1,706,380	9,655	1,665,275	31,450		1 (D)	
Water to other irrigation organizationsacre-feet To other irrigation organizations	399,577	2,287	72,630	324,660		(D)	•••
onlyorganizations acre-feet	9,786		:::	9,786		• • • • • • • • • • • • • • • • • • • •	
Part of water from other organizations	634,650		634,650		:::		
sources. acre-feet. From other irrigation organizations. acre-feet. Water delivered. acre-feet To farm and residential users only. organizations.	251,852 382,798 423,383		251,852 382,798 423,383				• • • • • • • • • • • • • • • • • • • •
To farm and residential users and other	423,383		423,383		:::	:::	
irrigation organizationsorganizations Water to farm and residential usersacre-feet						•••	
Water to other irrigation organizationsacre-feet To other irrigation organizations onlyorganizations							•••
acre-fect All of water from other organizationsorganizations			:::				:::
Total water conveyed	26,565 23,042	4,965 4,682	21,600		•••		•••
To farm and residential users and other	23,042	4,682	18,360	:::			
irrigation organizationsorganizations Water to farm and residential		•••	•••				
users. acre-feet Water to other irrigation organizations. acre-feet							• • •
To other irrigation organizations onlyorganizations							
No water conveyedorganizations	 1	:::			1		•••
WATER FROM OTHER SOURCES Crganizations reporting no water from other sources used on the land served by the organization	91 796,505	61 35,765	25 584,623	101,475	1	3	
acres irrigated water delivered to farms (acre-feet) acre-feet per acre Organizations reporting water from other	717,328 3,141,713 4.4	25,495 88,489 3.5	522,803 2,381,296 4.6	101,475 100,783 454,906 4.5	74,642 68,247 217,022 3.2	(D) (D) (D) (D)	•••
sources used on land served by the organizations acres aerved acres irrigated	43,724 38,314	7 6,324 5,614	3 28,300 24,900	9,100 7,800	:::		
water delivered to farms (scre-feet) acre-feet per acre NEW CAPITAL INVESTMENT, 1950-1959	128,295	22,153	64,142	42,000 5.4			***
Expenditures for additional new works and equipment for irrigation and drainage, January 1, 1950-December 31, 1959	9,909,290 1,434,026	21 21,228	14 656,860	 755,938	9,909,290	2 (D)	

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

		Snake	River, King Hil	l, Idaho to Ameri	can Falls, Idaho (I-G)	
Item (For definitions and explanations, see text)		Mut	ual		U. S. Bureau c	of Reclamation	Commercial.
(FOE det missions and expandicular, see sexu)	All types	Unincorporated '	Incorporated	District	Projects and storage systems operated by bureau	Operated by water users	Indian, State, city, and other
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959							
Total entering conveyance systemsorganizations acre-feet	103 4,581,339	68 128 , 851	28 3,170,578	1,045,609	236,301	3 (D)	
From another drainage basinorganizations							
From drainage basin,				***		•••	
From sources within basinorganizations	96 4,581,339	62 128,851	27 3,170,578	1,045,609	236,301	3 (D)	:::
Surface waterorganizations	4,313,721	56 107,821	3,145,422	1,014,709	1 45,769	(D)	
Ground waterorganizations	16 267,618	8 21,030	6 25,156	30,900	190,532	(D)	
From other organizations in the basin organizations receiving	10 409,363	6 4 , 965	4 404,398	:::	:::		
Total leaving conveyance systemsorganizations acre-feet	103 4,581,339	68 131,529	29 ° 3,502,34€	5 711,163	1 236,301	(D)	
Conveyance loss in basinorganizations scre-feet	84 1,259,233	56 20,309	21 1,008,493	6 211 , 152	1 19,279	3 (D)	:::
Conveyed to another drainage basinorganizations	3 73,759		53,959	19,800			
To drainage basin number				17,000			:::
Delivered for use in the basinorganizations	3,248,347	68 111,220	28 2,439,894	5 480,211	217,022	3 (D)	
To farm irrigation water usersorganizations	102 3,209,758	68 110,642	28 2,402,508	5 479,586	217,022	3 (D)	:::
To domestic water usersorganizations	1.6 36,529	7 578	8 35,326	1 625	:::	(D)	l :::
For other useorganizations acre-feet	2,060		2,060		:::		
Delivered to other impation organizations	7 409,363	2, 2,287	3 72,630	2 334,446		(D)	:::
SIZE OF ORGANIZATION, 1959		ĺ					
Size of organization (number of farm irrigation water users). None	2 34 34 17 6 5 2	31 29 8 	 3 5 9 3 4 1 3	1 3 1 	 	(D) (D) (D) (D) (D) (D) (D)	
Size of organization (aere-feet of water delivered directly to farme):	2 16 24 25 18 8 5	16 23 20 8 1	1 5 10 7 1	1 4 1	:: ::: ::: ::: :::	(D) (D) (D) (D) (D) (D) (D)	
Size of organization (acre-feet of water conveyed). organizations organizations organizations organizations organizations organizations organizations. Organizations organizations organizations organizations organizations organizations organizations organizations organizations organizations organizations organizations organizations organizations organizations organizations organizations organizations organizations organizations	1 11 26 24 18 11 6 7	 11 25 19 11 2	 1 5 7 8 3	 1 3 2	1 	(D) (D) (D) (D) (D) (D) (D)	:::

D Data not shown to avoid disclosure of information for individual organizations. NA Not available.

			Snake River al	bove American Fal	ls, Idaho (I-H)		
Item		Mut	ual		U. S. Bureau c	of Reclamation	Commercial
(For definitions and explanations, see text)	All types	Unincorporated	Incorporated	District	Projects and storage systems operated by bureau	Operated by water users	Indian, State, city, and other
Irrigation organizationsorganizations 1959	295 366	118 193	164 156	9	1	 NA	3
Service area, 1959: Area served, as reported by organizationsacres Area irrigated, as reported	774,377	62,061	488,803	175,893	9,520		38,100
by organizations	724,454 14,690 11,133 3,542 15	58,300 801 627 171 3	454,241 7,696 6,478 1,206	170,899 3,401 2,901 500	8,520 67 67 		32,494 2,725 1,060 1,665
TYPE OF SERVICE, 1959							
All water directly from surface and ground water sources. organizations. Total water conveyed	204 4,937,633 4,248,680	95 213,108 183,000	96 3,231,629 2,851,825	1,221,610 1,031,780	16,718 13,082		254,568 168,993
acre-feet To farm and residential users and other irrigation organizationsorganizations	2,346,694	168,053 2	1,168,802	827,764	13,082		168,993
Water to farm and residential usersacre-feet Water to other irrigation	645,941	7,481	458,460	180,000		•••	
organizationsacre-feet To other irrigation organizations onlyorganizations	1,118,105	7,466	1,086,623	24,016		•••	
Part of water from other organizationsorganizations	137,940		137,940				
Total water conveyedacre-feet From surface and ground water sourcesacre-feet	661,723 1_8,241 669,964	13,388 5,438 7,950	648,335 1-13,679 662,014	:::	:::		
From other irrigation organizationsacre-feet Water deliveredacre-feet To farm and residential users onlyorganizations	598,808	12,007	586,801	:::	:::	:::	:::
acre-feet To farm and residential users and other irrigation organizationsorganizations	295,216	12,007	283,209				
Water to farm and residential usersacre-feet Water to other irrigation	256,506		256,506			•••	
organizationsacre-feet To other irrigation organizations onlyorganizations acre-feet	47,086		47,086			•••	
All of water from other organizations. organizations. Total water conveyed	69 872,711 792,539	22 32,488 29,268	47 840,223 763,271			:::	:::
onlyorganizations acre-fest To farm and residential users and other	56 423 ,3 96	26 ,2 22	40 397,1 7 4	:::	:::		:::
irrigation organizationsorganizations Water to farm and residential usersacre-feet	138,164	359	137,805				
Water to other irrigation organizationsacre-feet To other irrigation organizations	229,530	1,238	228,292				
onlyorganizations acre-feet No water conveyedorganizations	1,449 1	1,449 	··· 1	:::			
WATER FROM OTHER SOURCES Organizations reporting no water from other sources used on the land served by the organizations	257 646,559 602,600 3,502,672	110 60,428 56,667 206,753 3.6	136 398,503 369,905 2,302,160 6.2	8 170,008 165,014 973,557	9,520 8,520 13,082 1.5		8,100 2,494 7,120 2.5
sources used on land served by the organization	34 129,188 123,224 581,427 4.7	6 1,633 1,633 6,889 4.2	26 91,670 85,706 388,731 4.5	5,885 5,885 29,807 5.1			30,000 30,000 156,000 5.2
NEW CAPITAL INVESTMENT, 1990-1999 Expenditures for additional new works and equipment for irrigation and drainage, January 1, 1990-December 31, 1999 organizations By U. S. B. R. dollars By Water users organization dollars See footnote at end of table.	137 1,622,892		95 1,205,545	5 206,460	:::		176,000

			Snake River ab	ove American Fall	s, Idaho (I-H)		
Item (For definitions and explanations, see text)		Mut	ual .		U. S. Bureau o	of Reclamation	
(FOR definitions and explanations, see text)	All types	Unincorporated	Incorporated	District	Projects and storage systems operated by bureau	Operated by water users	Commercial, Indian, State, city, and other
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959							
Total entering conveyance systemsorganizations acre-feet	294 4,937,957	118 218,546	163 3,226,515	1,221,610	1 16,718	:::	254 , 568
From another drainage basinorganizations acre-feet	8 34,634	3,889	6 30,745				
From drainage basin,	27,004	3,007	I-H-3b	:::	:::	:::	:::
From sources within basinorganizations acre-feet	218 4,903,323	95 214,657	110 3,195,770	9 1,221,610	16,718		300
Surface waterorganizations	202 4,687,819	84 144,895	105 3,053,617	9	1		254,566
Ground materorganizations acre-feet	25 215,504	15 69,762	142,153	1,221,610	13,129	:::	254,568
From other organizations in the basin organizations receiving	89	23	66		3,589	***	
acre-feet	1,534,110	40,438	1,493,672	,	:::	***	:::
Total leaving conveyance systemsorganizations acre-feet	294 4,937,957	118 248,831	163 3,220,246	9 1,197,594	1 16,718		3 254,568
Conveyance loss in basinorganizations acre-feet	281 822,691	112 34,437	157 509,213	9 189,830	3,636		2 85,575
Conveyed to another drainage basinorganizations acre-feet	1		1				
To drainage basin numberD. B. No	3,800	:::	3,800	:::	:::	•••	:::
Delivered for use in the basinorganizations acre-feet	291	116	162	9	1		3
To farm irrigation water usersorganizations	4,111,466 291	214,394 116	2,707,233 162	1,007,764	13,082		168,993 3
To domestic water usersorganizations acre-feet	4,081,691 25	213,642	2,688,483 18	1,003,364 1	13,082	:::	163,120 2
For other useorganizations scre-feet	24,226 9 5,549	480 3 272	13,473 6 5,277	4,400			5,873
Delivered to other impation organizations	36 1,534,110	8 10,153	27 1,499,941	1 24,016	:::	***	
SIZE OF ORGANIZATION, 1959							
Size of organization (number of farm irrigation water users): organizations None	6 56 77 84 51 14 6 1	2 52 52 11 1	3 4 25 71 12 12 2	1 1 1 2 4	::: ::: 1 :::	:::	 1 1
Sise of organization (acre-feet of water delivered directly to farms): organizations	40 36 52 85 44 26 8	2 35 31 31 17 2	2 . 5 . 20 . 66 . 39 . 24 .		 1	:::	 1 1
Size of organization (acre-feet of water conveyed): crganizations (None	1 36 32 52 76 51 32 15	32 29 34 19 3	1 4 3 18 54 47 28	 1 3 5		:::	

MA Not available.

*What available.

*Whater was transferred to the basin and released to natural atream channels in excess of the quantity of surface water withdrawn by irrigation organizations. The net effect was to increase the available surface water supply in the basin or State.

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State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

			Bonneville Basin	and Bear River (III-D and III-E)		
Item (For definitions and explanations, see text)		Mut	ual		U. S. Bureau	of Reclamation	0
, , , , , , , , , , , , , , , , , , , ,	All types	Unincorporated	Incorporated	District	Projects and storage systems operated by bureau	Operated by	Commercial, Indian, State, city, and other
Irrigation organizationsorganizations 1959	182 192	105 110	76 81	1		1 NA	
Service area, 1959: Area served, as reported by organizationsacres	193,275	38,397	(D)	(D)		(D)	
Ares irrigated, as reported by organizationsacres	175,846	33,760	(D)	(D)		(D)	
Water users served, 1959, total	3,887 3,378 505 4	474 458 16	(D) (D) (D) (D)	(D) (D)		(D) (D)	
TYPE OF SERVICE, 1959							
All water directly from surface and ground water sources. organizations. Total water conveyed	152 591,214 459,367	93 96,819 81,807	58 (D) (D)	(D) (D)		(D) (D)	
To farm and residential users and other	319,851	81,807	(D)	(D)	:::	(D)	
irrigation organizationsorganizations Water to farm and residential	6	•	6				
Water to other irrigation	24,249		(D)				
organizationsacre-feet To other irrigation organizations	108,227		(D)				
onlyorganizations acre-feet	7,040	:::	(D)				
Part of water from other organizationsorganizations Total water conveyedacre-feet From surface and ground water	3 10,908	1,678	(D)		:::		
sourcesacre-feet From other irrigation organizationsacre-feet Water deliveredacre-feet To farm and residential users	1_845 11,753 1,885	1,500 178 1,510	(D) (D) (D)			***	•
onlyorganizations acre-feet To farm and residential users and other	1,885	1,510	(D)	:::	:::		
irrigation organizationsorganizations Water to farm and residential usersacre-feet						•••	•••
Water to other irrigation organizations							
onlyacre-feet	:::	:::	:::	:::	:::		
All of water from other organizationsorganizations Total water conveyedacre-feet Water deliveredacre-feet To farm and residential users	154,852 131,668	11 12,404 9,523	(D) (D)				•••
onlyorganizations	59,657	9,523	13 (D)	:::	:::		
To farm and residential users and other irrigation organizationsorganizations	3		3				
Water to farm and residential usersacre-feet Water to other irrigation	20,685		(D)				
organizationsacre-feet To other irrigation organizations	51,326		(D)				
onlyorganizations acre-feet No water conveyedorganizations							
WATER FROM OTHER SOURCES Organizations reporting no water from other sources used on the land served by the organization	151	90	61				•••
acres irrigated water delivered to farms (acre-feet) acre-feet per acre Organizations reporting water from other	174,301 158,849 409,235 2.6	34,958 30,321 86,488 2.9	(D) (D) (D) (D)	•••			
sources used on land served by the organizations. acres served. acres irrigated. water delivered to farms (acre-feet). acre-feet per acre.	30 43,320 40,203 61,912 1.5	15 3,799 3,799 6,967 1.8	14 (D) (D) (D) (D)	(D) (D) (D) (D)		(D) (D) (D) (D)	
NEW CAPITAL INVESTMENT, 1950-1959 Expenditures for additional new works and equipment for irrigation and drainage. January 1, 1950-Recember 31, 1959	53 7,600 987,767	25 81,465	28 (D) (D)	:::	:::		

State Table 4.-NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950-Con.

			Bonneville Basin	and Bear River (III-D and III-E)		
Item		Mut	ual		U. S. Bureau o	of Reclamation	Commonadal
(For definitions and explanations, see text)	All types	Unincorporated	Incorporated	District	Projects and storage systems operated by bureau	Operated by water users	Commercial, Indian, State, city, and other
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959							
Total entering conveyance systemsorganizations acre-feet	182 590,381	105 98,319	76 (D)	(D)	:::	7,350	:::
From another drainage basinorganizations acre-feet	3 6,835		3 (D)				
From drainage basin,	•,033		•••		:::		:::
From sources within basinorganizations	153 583,546	94 98 , 319	58 (D)	(D)		1 7,350	:::
Surface waterorganizations	134 563,319	79 89,202	54 (D)	(D)	:::	7,350 7,350	
Ground waterorganizations	21 20,227	16 9,117	(D)				
From other organizations in the basin organizations receiving	30 166,593	12 12,582	18 (D)	:::	:::	:::	:::
Total leaving conveyance systemsorganizations acre-feet	182 590,381	105	76 (D)	1 (D)	:::	7,350	:::
Conveyance loss in basinorganizations	176 86,442	102 17,261	73 (D)	1 (D)	:::	1,690	:::
Conveyed to another drainage basinorganizations	9	1	8				
acre-feet To drainage basin number	77,600	800	(D)	:::	:::		:::
Delivered for use in the basinorganizations	181	105	75	1		1	
acre-feet To farm irrigation water usersorganizations acre-feet	426,339 181	92,840 105	(D) 75	(D) 1 (D)	:::	5,660 1 5,660	:::
To domestic water usersorganizations	423,754 13	92,840	(D) 13 (D)		:::	•••	
acre-feet For other useorganizations acre-feet	2,573 2 12	:::	(b) 2 12		:::		
Delivered to other impation organizations organizations delivering.	10		10				
acte-feet	166,593	::::	(D)		:::		
SIZE OF ORGANIZATION, 1959							
Size of organization (number of farm irrigation water users): Noneorganizations	4	2	(D)	(D)			
1 to 3 water usersorganizations 4 to 9 water usersorganizations	53 49	52 41	(D) (D)	(D)	:::		
10 to 29 water usersorganizations 30 to 99 water nsersorganizations	48 19	10	(D)	(D) (D)			:::
100 to 299 water usersorganizations 300 to 999 water usersorganizations	8		(D)	(D)	:::		
1,000 or more water usersorganizations Size of organization (acre-feet of water	1		(D)	(D)		•••	
delivered directly to farms): Noneorganizations	1		(D)	(D)			
1 to 299 acre-feetorganizations 300 to 999 acre-feetorganizations	31 61	28 49	(D) (D)	(D) (D)	:::		:::
1,000 to 2,999 acre-feetorganizations 3,000 to 9,999 acre-feetorganizations	49 32	21 7	(D) (D)	(D) (D)			:::
10,000 to 29,999 acre-feet organizations. 30,000 to 99,999 acre-feet organizations. 100,000 or more acre-feet organizations.	5 3		(D) (D)	(D)	:::		
Size of organization (acre-feet of water conveyed):							
Noneorganizations 1 to 299 acre-feetorganizations	25	24	(D)	(D)	:::		•••
300 to 999 acre-feetorganizations 1,000 to 2,999 acre-feetorganizations	54 58	43 31	(D) (D)	(D)			
3,000 to 9,999 acre-feetorganizations 10,000 to 29,999 acre-feetorganizations	31 8	7	(D)	(D)		1	
30,000 to 99,999 acre-feetorganizations 100,000 or more acre-feetorganizations			(D)	(D)	}		

D Data not shown to avoid disclosure of information for individual organizations.

NA Not available.

"Where was transferred to the basin and released to natural stream channels in excess of the quantity of surface water withdrawn by irrigation organizations. The net effect was
to increase the available surface water supply in the basin or State.

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State Table 5.—NUMBER OF IRRIGATION ORGANIZATIONS, TYPE OF SERVICE, NEW CAPITAL INVESTMENT, AND WATER CONVEYED, BY SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUS OF 1959

Item		Idaho,	total		Columbia Yakima River	River above ; , and Snake R	Snake River e iver below We nd I-E)	xcluding iser, Idaho
(For definitions and explanations, see text)			Size of or	ganization, h	y total water	conveyed		
	0-999 acre-feet	1,000- 9,999 acre-feet	10,000- 99,999 acre-feet	100,000 or more acre-feet	0-999 acre-feet	1,000- 9,999 acre-feet	10,000- 99,999 acre-feet	100,000 or more acre-fee
Number of organizations	293	438	166	30	41	71	7	-
All water directly from surface and ground sourcesorganizations	246	343	114	23	39	67	4	
Total water conveyedacre-feet Water deliveredacre-feet	104,098 90,619	1,231,995 1,044,096	3,281,959 2,599,583	8,663,006 6,859,467	19,187 16,732	278,843 232,074	133,462 64,596	
To farm and residential users onlyorganizations	244 88,959	1,007,029	1,788,095	1,756,658	39 16,732	66 228,961	48,187	
To farm and residential users and other	1	a	25	10	,	1		
irrigation organizations	570 266	15,146	315,156 470,137	3,480,171 1,484,698		1,656 1,457		
To other irrigation organizations onlyorganizations	1	13,755	2	1			 1	
Part of water from other organizationsorganizations	824 8	8,166	26,195	137,940			16,409	
Total water conveyedacre-feet	2,024	137,411	717,622	1.439.888		5,548	36,075	
From surface and ground water sourcesacre-feet From other irrigation organizationsacre-feet	391 1,633	7,739 129,672	205,410 512,212	657,575 782,313		433 5,115	8,923 27,152	
Water deliveredacre-feet To farm and residential users onlyorganizations	1,831	115,055	727,255	1,162,645		5,188	35,215	
To farm and residential users and other	1,831	115,055	589,238	929,445	:::	5,188	12,900	
irrigation organizations			6	2			1	
Water to farm and residential usersacre-feet Water to other irrigation organizationsacre-feet			74,849 63,168	208,804 24,396			22,315	
To other irrigation organizations onlyorganizations acre-feet								
All of water from other organizations	32	67	29	1	2	2	1	
Total water conveyedacre-feet. Water deliveredacre-feet.	15,083 13,640	259,839 224,905	655,684 565,921	217,867 211,807	911 869	5,281 4,371	15,498	
To farm and residential users onlyorganizations	27	66	20		2	2	1	
To farm and residential users and other	11,619	223,880	339,620		869	4,371		
irrigation organizationsorganizations Water to farm and residential usersacre-feet	4 359		111,278	47,212			:::	
Water to other irrigation organizationsacre-feet To other irrigation organizations onlyorganizations	1,238	_i	115,023	164,595				
acre-feet	424	1,025	:::		:::	:::		
No water conveyedorganizations	7					•••		
WATER FROM OTHER SOURCES								
Organizations reporting NO water from other sources used on land served by the organizationorganizations	253	381	133	26	36	56	5	
acres served acres irrigated	53,774 41,893	363,610 318,767	578,841 516,250	1,106,242 1,061,856	7,745 5,171	49,484 44,003	17,372 15,416	
Organizations reporting water from other sources used	31	55	30			15	,	
on land served by the organizationorganizations acres served	10,220	72,346	148,712	192,467	1,935	10,316	3,000	
acres irrigated NEW CAPITAL INVESTMENT, 1950-1959	8,316	61,769	141,098	192,467	820	10,266	1,850	
Expenditures for additional new morks and equipment for irrigation and drainage, January 1, 1950-lecember 31, 1959	71	201	88					
dollars								
	7,433,764	2,314,938	2,396,072	12,383,085	16 317,959	1,307,608	25,000	
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959		2,314,938	2,396,072	12,383,085	317,959	1,307,608	25,000	
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959 Total antering conveyance systems in basinorganizations	286	2,314,938 438	2,396,072	30		71	7	
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959 Total entering conveyance systems in basinorganizations acre-feet From another drainage basinorganization	286 104,501 1	2,314,938 438 1,239,734 8	2,396,072 166 3,487,369	30 9,383,022 1	317,959 41 19,187	71 283,100 1	7 152,337	
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959 Total antering conveyance systems in basin	286 104,501 1 35	2,314,938 438 1,239,734 8 29,069	2,396,072 166 3,487,369 1 10,000	30 9,383,022 1 101,201	317,959 41 19,187	71 283,100 1 3,824	152,337 152,337 22,315	
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959 Total entering conveyance systems in basin. organizations acre-feet From another drainage basin number. organization From brainage Basin number. organization From natural sources within basin. organizations acre-feet acre-feet acre-feet	286 104,501 1 35 253 104,466	2,314,938 438 1,239,734 8 29,069 363 1,210,665	2,396,072 166 3,487,369 1 10,000 137 3,477,369	30 9,383,022 1 101,201 30 9,281,821	317,959 41 19,187 39 19,187	71 283,100 1 3,824 68 279,276	7 152,337 1 22,315 6 130,022	
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959 Total entering conveyance systems in basin. organizations From another drainage basin. organization. From Drainage Basin number	286 104,501 1 35 253 104,466 229	2,314,938 438 1,239,734 8 29,069 363 1,210,665 345	2,396,072 166 3,487,369 10,000 137 3,477,369 131 3,291,725	30 9,383,022 1 101,201 30 9,281,821	317,959 41 19,187 	71 283,100 1 3,824	7 152,337 1 22,315	
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959 Total entering conveyance systems in basin. organizations acre-feet From another drainage basin. organizations acre-feet From Drainage Basin number	286 104,501 1 35 253 104,466 229 93,792	2,314,938 438 1,239,734 8 29,069 363 1,210,665 345 1,114,737 27	2,396,072 166 3,487,369 1 10,000 137 3,477,369 131 3,291,725	30 9,383,022 1 101,201 30 9,281,821 29 9,026,806 6	317,959 41 19,187 39 19,187 38 18,463	71 283,100 1 3,824 68 279,276 69 279,276	152,337 1 22,315 6 130,022 5 130,022	
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959 Total entering conveyance systems in basin. organizations acre-feet From another drainage basin. organization acre-feet From brainage Basin number	286 104,501 1 35 253 104,466 229 93,792 26 10,674	2,314,938 438 1,239,734 8 29,069 363 1,210,665 345 1,114,737 27 95,928	2,396,072 166 3,487,369 1 10,000 137 3,477,369 131 3,291,725 10 185,644 49	30 9,383,022 1 101,201 30 9,281,821 29 9,026,806 6 255,015	317,959 41 19,187 39 19,187 38 18,463	71 283,100 1 3,824 68 279,276 69 279,276	152,337 152,335 22,315 6 130,022 5 130,022	
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959 Total entering conveyance systems in basin. organizations acre-feet From another drainage basin. organizations acre-feet From Drainage Basin number D. B. No. From natural sources within basin. organizations. Surface water organizations. Ground water organizations. acre-feet Ground water organizations organizations. acre-feet From other organizations in the basin organizations or center Green editors organizations or the basin organizations or center	286 104,501 1 35 253 104,466 229 93,792 26	2,314,938 438 1,239,734 8 29,069 363 1,210,665 245 1,114,737 27 95,928	2,396,072 166 3,487,369 1 10,000 137 3,477,369 131 3,291,725 10 185,644 49 1,167,896	30 9,383,022 1 101,201 30 9,281,821 9,026,806 6 255,015 7 937,739	317,959 41 19,187 39 19,187 38 18,463 1 724 2 911	71 283,100 1 3,824 68 279,276 3 6,572	7 152,337 1 22,315 6 130,022 5 130,022 2 32,698	
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959 Total entering conveyance systems in basin. organizations. acre-feet From another drainage basin. organizations. acre-feet From Drainage Basin number. D. B. No. From Drainage Basin number. Organizations. Surface water. Organizations. Organizations. Organizations. Organizations. Organizations. Organizations. Organizations. Organizations. Organizations. Organizations. Organizations. Organizations. Organizations. Organizations. Organizations. Organizations. Organizations of the Justice of the Control of	286 104,501 1 35 253 104,646 6 229 93,792 26 10,674 40 16,704 286 118,453	2,314,938 438 1,239,734 8 29,069 363 1,210,665 27 95,928 989,511 438 1,666,299	2,396,072 166 3,487,369 1 10,000 137 3,477,369 133 3,291,725 10 185,644 4 1,167,896 166 3,980,742	9,383,022 1 101,201 30 9,281,821 29 9,026,806 6 255,015 7 937,739 30 8,509,132	317,959 41 19,187 39 19,187 18,463 1 724 2 911 41 20,098	70 283,100 1 3,824 68 279,276 69 279,276 3 6,572 71 288,215	152,337 152,335 22,315 6 130,022 5 130,022	
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959 Total entering conveyance systems in basin. organizations acre-feet From another drainage basin. organizations acre-feet From Drainage Basin number. D. B. No. From natural sources within basin. organizations. acre-feet Surface water. organizations. Ground water. organizations. acre-feet From other organizations in the basin. organization scare-feet From other organizations in the basin. organization. Organization organization.	286 104,501 1 35 104,466 229 93,792 26 10,674 40 16,704	2,314,938 438 1,239,734 8 29,069 363 1,210,665 345 1,114,737 27 95,92 95,92 389,511	2,396,072 166 3,487,369 1 10,000 137 3,477,369 131 3,291,725 10 185,644 49 1,167,896	30 9,383,022 1 101,201 30 9,281,821 9,026,806 6 255,015 7 937,739	317,959 41 19,187 39 19,187 38 18,463 1 724 2 911 41 20,098 34 2,497	71 283,100 1 3,824 68 279,276 69 279,276 3 6,572 71 288,215 65 47,959	7 152,337 1 22,315 6 130,022 5 130,022 2 32,698	
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959 Total entering conveyance systems in basin. organizations. acre-feet. From another drainage basin. organizations. acre-feet. From Drainage Basin number. D. B. No. organizations. organizations. Surface water. organizations. Ground water. organizations. Ground water. organizations. organizations. organizations. organizations. organizations. organizations. organizations. Organizations.	286 104,501 1 35 253 104,466 229 93,792 6 10,674 400 16,704 286 118,453	2,314,938 438 1,239,734 8 29,069 363 1,210,665 377 27 95,928 95,93 389,511 1,606,299 1,606,299	2,396,072 166 3,487,369 10,000 137 3,477,369 131 3,291,725 49 1,107,896 3,980,742 166 3,980,742	9,383,022 1 101,201 30 9,281,821 9,026,806 6 255,015 7 937,739 30 8,509,132	317,959 41 19,187 39 19,187 38 18,463 12 42 911 41 20,098	71 283,100 1 3,824 68 279,276 3 6,572 71 288,215	77 152,337 1 22,315 6 130,022 2 32,698 7 146,311	
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959 Total entering conveyance systems in basin. organizations acre-feet From another drainage basin. organizations acre-feet From Drainage Basin number B. No. Prom natural sources within basin. organizations organizations. Surface water organizations. acre-feet Ground water organizations. acre-feet From other organizations in the basin organizations recissions. organizations recissions. organizations ore care-feet Conveyance loss in basin organizations recissions. acre-feet Conveyance loss in basin organizations organizations organizations. organizations. To drainage basin number organizations.	286 104,501 1 35 35 104,466 229 93,792 26 10,674 40 16,704 118,453 286 118,453 214,528	2,314,938 438 1,239,734 8 29,069 1,210,665 345 1,114,737 95,928 389,511 438 1,666,299 235,274 5,825	2,396,072 166 3,487,369 10,000 137 3,477,369 101 185,644 49 1,167,896 3,980,742 166 3,980,742 169,430 127,555	30 9,383,022 1 101,201 30 9,281,821 29 9,026,806 6 255,015 7 937,739 30 8,509,132 2,068,952 11,957	317,959 41 19,187 39 19,187 88 18,463 1724 22 911 41 20,098 42,497	71 283,100 1 3,824 68 279,276 69 279,276 3 6,572 71 288,215 65 47,959	77 152,337 22,315 22,315 6 130,022 5 130,022 2 32,698 7 146,311 5 32,885	
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959 Total entering conveyance systems in basin. organizations. acre-feet From another drainage basin. organizations. acre-feet From Drainage Basin number B. 8. No. Prom natural sources within basin. organizations organizations. Surface water organizations acre-feet. Ground water organizations organizations acre-feet. From other organizations in the basin organizations recissors. Total leaving conveyance systems organizations recissors. Conveyance loss in basin organizations organizations ore-feet. Conveyance loss in basin organizations organizations. To drainage basin number organizations. To drainage basin number organizations. To drainage basin number b. 8. No. Delivered for use in the basin organizations occur-feet.	286 104,501 1 35 3 253 104,466 229 93,792 26 10,674 40 16,704 18,453 286 118,453 11 320 284 103,605	2,314,938 1,239,734 29,069 1,210,665 1,114,737 95,928 389,511 1,606,239 488 235,274 438 1,365,250	2,396,072 166 3,487,369 1 10,000 1,173 3,477,369 1,107,369 1,107,896 1,107,896 1,107,896 1,107,896 1,107,896 1,107,896 1,107,896 1,107,896 1,107,896 1,107,896 3,980,742 1,107,896	9,383,022 101,201 	317,959 41 19,187	71 283,100 1 3,824 68 279,276 279,276 3 6,572 71 288,215 647,959 71 240,256	152,337 1 22,315 6 130,022 2 32,698 7 146,311 5 32,882 52,322 52,232	
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959 Total entering conveyance systems in basin. organizations. acre-feet. From another drainage basin. organizations. acre-feet. From Drainage Basin number. D. B. No. From Irrigate and State of State	286 104,501 1 35 253 104,646 229 93,792 10,674 16,704 286 118,453 124,528 14,528 13,523 14,528 13,634 103,685	2,314,938 1,239,734 29,069 363 1,210,665 1,114,737 95,928 389,511 438 1,606,209 235,274 435	2,396,072 166 3,487,369 10,000 10,000 3,477,369 131 3,231,773 166 3,980,742 163 3,980,742 163 164 3,980,742 163 164 3,980,742 163 164 3,980,742 165 166 3,980,742 163 164 3,980,742 165 166 3,980,742 167 168 168 169 169 169 169 169 169 169 169	9,383,022 101,201 9,281,821 9,026,806 625,015 7937,739 8,509,132 2,068,952 11,957 29 6,428,233 29 6,428,233	317,959 41 19,187 39 19,187 1,187 1,187 2,29 111 41 20,098 2,497 41 41 41 41 41 41 41 41 41 41 41 41 41	71 283,100 1 3,824 68 279,276 3 6,572 71 288,215 65 47,959	152,337 152,337 22,315 10,022 130,022 130,022 32,698 146,311 532,885 52,339 46,061,087 44	
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959 Total entering conveyance systems in basin. organizations. acre-feet. From another drainage basin mamber. organizations acre-feet. From Drainage Basin number. D. B. No. From nother organizations. Surface water. organizations. Surface water. organizations. Granuld water. organizations. Acre-feet. From other organizations in the basin. organizations reciency. Acre-feet. Conveyance loss in basin. organizations reciency. Conveyance loss in basin. organizations. To drainage basin number. organizations. To drainage basin number. D. B. No. Delivered for use in the basin. organizations. To farm irrigation water users organization. To farm irrigation water users organization. To residential water users. organizations.	286 104,501 1 31 323 104,466 229 93,782 10,674 40 16,704 286 118,453 11 300 284 103,603	2,314,938 1,239,738 2,397,738 2,063 1,210,665 1,114,737 389,511 1,666,293 1,385,203 1,365,203 1,323,235 37,876	2,396,072 166 3,487,369 10,000 137 3,477,369 137 3,291,725 185,644 40 1,1c7,896 3,980,742 166 3,980,742 167 169 3,980,742 169 169 169 169 169 169 169 169	9,383,022 101,201 9,281,821 9,026,866 25,013 27,77 30.8,599,112 2,068,992 11,997 	317,999 41 19,187 39 19,187 22 21 11 41 20,098 34 2,497 17,001 16,911 16,911 5690	71 283,100 1 3,824 68 279,276 69 279,276 3 6,572 71 288,215 71 240,256	152,337 1 22,315 6 130,025 130,025 130,025 146,311 5 32,865 5 22 5 2,339 4 61,047	
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959 Total entering conveyance systems in basin. organizations acre-feet From mother drainage basin. mamber. acre-feet From brainage Basin number. organizations From brainage Basin number. organizations scre-feet Surface water. organizations Ground water. organizations acre-feet Ground water. organizations. recrue, organizations recet From other organizations in the basin. organizations. organizations. Conveyance loss in basin. organizations. conveyance loss in basin. organizations. conveyance to acre-feet. To drainage basin number. organizations. acre-feet. To drainage basin number. organizations. organizations. To farm irrigation water users. organizations. acre-feet. To farm irrigation water users.	286 104,501 1 35 104,466 104,666 10,674 10,674 10,742 103,605 104,605	2,314,938 1,239,734 2,9069 1,210,635 1,114,737 95,938 1,606,299 389,511 1,332,324 1,365,233 1,323,234 37,876	2,396,072 166 3,487,369 1 10,000 197 3,477,369 110 185,644 1,167,896 3,980,742 2,373 2,23,753 3,213,163 3,213,163 3,663 3,663 3,663	30 9,383,022 101,201 30 9,281,821 9,026,866 6 255,012 937,739 8,509,132 2,068,952 11,957 29 6,428,232 143,335 143,335	317,999 41 19,187 39 19,187 11 20,098 2,497 17,601 16,911	283,100 1 3,824 279,276 279,276 3 6,572 47,959 288,215 240,256 230,860	152,337 22,313 22,313 6 130,022 5 130,022 32,698 7 146,311 32,885 32,885 32,885 4 61,087 61,087	
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959 Total entering conveyance systems in basin. organizations acre-feet From another drainage basin. organizations acre-feet From bruinage Basin number organizations acre-feet From pruinage Basin number organizations acre-feet Surface water. organizations acre-feet Ground water. organizations acre-feet From other organizations in the basin. organizations recursing Total leaving conveyance systems. organizations. acre-feet Conveyance loss in basin. organizations. acre-feet Conveyance loss in basin. organizations. To drainage basin number. organizations. Delivered for use in the basin. organizations. To farm irrigation water users. organizations. acre-feet. To residential water users. organizations. acre-feet. To residential water users. organizations. acre-feet. To residential water users. organizations. acre-feet. To residential water users. organizations. acre-feet. To other use. organizations.	286 104,501 1 1 1 2 2 3 3 104,466 229 93,792 26 10,674 40 114,450 114,451 114,451 114,451 114,451 115,	2,314,938 1,239,734 2,90,63 1,120,665 1,114,737 95,93 389,911 1,666,299 5,825 1,365,200 1,333,234 4,900	2,396,072 166 3,487,369 1 10,000 107 3,477,369 13,291,725 1,167,896 29,430 3,221,755 3,123,163 3,223,757 3,181,616,23 3,5,521 3,5,521	9,383,022 101,201 101,201 101,201 9,281,821 9,026,896 6 255,015 937,73 937,73 937,73 11,957 11,957 29 6,428,223 11,957 12,102 143,336 5,933 143,336 5,933	317,999 41 19,187	71 283,100 1 3,824 88 279,276 6,972 6,572 47,599 71 240,256 250,360 10 11	152,337 22,315 22,315 	
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959 Total entering conveyance systems in basin. organizations. acre-feet. From another drainage basin number	286 104,500 35 253 104,466 229 93,792 26 10,670 16,704 114,452 14,228 103,600 284 103,600 284 103,600 284 284 284 284 284 284 284 284 284 284	2,314,938 1,239,734 2,965 31,210,665 1,114,737 2,95,93 389,311 1,666,298 235,75 5,825 1,365,200 37,878,232 37,878,232 37,878,232	2,396,072 166 3,487,369 10,000 137 3,477,369 131 3,291,725 1,167,896 4,980,743 629,533 629,533 1,27,559 1,27,559 3,223,757 3,181,638	9,383,022 101,201 9,281,821 9,026,860 6,25,015 25,015 27,7 30,7 30,7 30,7 30,7 4,50,81,925 11,957 6,428,223 6,278,953 6,278,953 143,336 5,933 143,366	317,999 41 19,187	71 283,100 3,224. 68 279,276 29,276 6,572 71 288,212 47,399 29,266 71 240,256 9,316	152,337 22,313 22,313 6 130,022 5 130,022 32,698 7 146,311 32,885 32,885 32,885 4 61,087 61,087	
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959 Total entering conveyance systems in basin. organizations. acre-feet From another drainage basin. organizations. acre-feet From Drainage Basin number D. B. No. From Drainage Basin number organizations. Surface water organizations. Surface water organizations. organizations. acre-feet Ground water organizations energet. From other organizations in the basin organizations erected. From other organizations in the basin organizations erected. Organizations or energet. Conveyance loss in basin organizations erected. Conveyance loss in basin organizations acre-feet. Conveyance loss in basin organizations organizations. To drainage basin number D. B. No. Delivered for use in the basin organizations. To farm irrigation water users organizations. organizations. To residential water users organizations. acre-feet. For other use organizations acre-feet. Delivered to other users organizations. acre-feet. Delivered to other irrigation organizations acre-feet. AVERAGE DELIVERY OF IRRIGATION WATER FER ACRE, 1959 Per acre irrigated, as reported by irrigation organization:	286 104,501 1 1 3 33 104,466 233 104,466 10,674 266 118,453 113,252 14,528 103,665 128,431 132,244 100,584 2,267 2,752	2,314,938 1,239,738 2,397,738 2,365 1,114,737 389,511 1,666,293 1,323,235 1,323,235 1,323,246 22,946	2,396,072 166 3,487,363 10,000 11,000 13,477,369 13,321,725 16,000 1,107,896 2,980,782 1,107,896 1,27,555 1,27,555 3,621,33 3,181,638 3,521 4,22 674,523	9,383,022 101,201 9,281,821 9,026,866 255,015 	317,999 41 19,187 91 19,187 19,187 122 20,191 11 20,098 2,497 17,601 16,51 16,51 16,51	71 283,100 1 3,824 8 279,276 69 279,276 6,572 288,215 71 240,256 9,116 1 1,457	152,337 1 22,315 	
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959 Total entering conveyance systems in basin. organizations. acre-feet. organizations acre-feet. Organizations acre-feet. Organizations acre-feet. Organizations acre-feet. Organizations acre-feet. Organizations acre-feet. Organizations acre-feet. Organizations organizations acre-feet. Organizations organizations delivered to other une.	286 104,501 1 1 1 2 2 3 3 104,466 229 93,792 26 10,674 40 114,450 114,451 114,451 114,451 114,451 115,	2,314,938 1,239,734 2,90,63 1,120,665 1,114,737 95,93 389,911 1,666,299 5,825 1,365,200 1,333,234 4,900	2,396,072 166 3,487,369 1 10,000 107 3,477,369 13,291,725 1,167,896 29,430 3,221,755 3,123,163 3,223,757 3,181,616,23 3,5,521 3,5,521	9,383,022 101,201 101,201 101,201 9,281,821 9,026,896 6 255,015 937,73 937,73 937,73 11,957 11,957 29 6,428,223 11,957 12,102 143,336 5,933 143,336 5,933	317,999 41 19,187	71 283,100 1 3,824 88 279,276 6,972 6,572 47,599 71 240,256 250,360 10 11	152,337 22,315 22,315 	

IRRIGATION OF AGRICULTURAL LANDS

State Table 5.—NUMBER OF IRRIGATION ORGANIZATIONS, TYPE OF SERVICE, NEW CAPITAL INVESTMENT, AND WATER CONVEYED, BY SIZE OF ORGANIZATION. BY DRAINAGE BASINS: CENSUS OF 1959—Continued

	Iten	Snake Rive	r, Weiser, Id	aho to King H	Hill, Idaho	Sna	ke River, Kin American Fa (I	g Hill, Idaho lls, Idaho -G)	o to
	(For definitions and explanations, see text)			Size of o	rganization, b	y total water	conveyed		
		0-999 acre-feet	1,000- 9,999 acre-feet	10,000- 99,999 acre-feet	100,000 or more acre-feet	0-999 acre-feet	1,000- 9,999 acre-feet	10,000- 99,999 acre-feet	100,000 or more acre-feet
1	Number of organizations	66	111	47	10	38	42	17	7
2	All water directly from surface and ground sourcesorganizations	50	74	40	7	34	39	14	6
4 5	Total water conveyedacre-feet Water deliveredacre-feet	18,950 17,156	261,987 223,208	873,731 648,300	1,914,123	14,366 12,464	133,747 114,739	366,767 278,801	3,814,607 2,803,221
6	To farm and residential users onlyorganizations acre-feet	16,332	71 214,040	31 356,462		34 12,464	38 112,598	11 249,281	719,139
	To farm and residential users and other irrigation organizationsorganizations		2	9	7	·	1	2	3
9	Water to farm and residential usersacre-feet Water to other irrigation organizationsacre-feet		3,992 4,050	136,193 155,645	1,292,632 181,795		1,259 882	15,651 4,083	1,689,470 394,612
10 11	To other irrigation organizations onlyorganizations acre-feet	1 824	1,126					9,786	· :::
12 13	Part of water from other organizationsorganizations	7	19	7	3			2	1
14	Total water conveyedacre-feet From surface and ground water sourcesacre-feet	1,889 368	82,838 3,669	248,329 169,521	645,865 457,798	:::		98,690 40,552	535,960 211,300
16	From other irrigation organizations. acre-feet. Water dellvered. acre-feet.	1,521 1,756	79,169 68,965	78,808 290,853	188,067 580,733	:::		58,138 74,671	324,660 348,712
18	To farm and residential users onlyorganizations acre-feet	7 1,756	68,965	245,543	580,733		:::	74,671	348,712
19	To farm and residential users and other irrigation organizationsorganizations			3					
20 21	Water to farm and residential usersacre-feet Water to other irrigation organizationsacre-feet	:::		27,147 18,163		:::			
22 23	To other irrigation organizations onlyorganizations acre-feet					:::			
24 25	All of water from other organizationsorganizations	4	18			3	3	1	
26 27	Total water conveyed	2,309 2,228	74,170 61,556		:::	1,093 1,000	3,872 3,682	21,600 18,360	
27 28 29	To farm and residential users onlyorganizations acre-feet	2,228	18 61,556	:::		1,000	3,682	18,360	:::
	To farm and residential users and other irrigation organizationsorganizations								
30 31	Water to farm and residential usersacre-feet Water to other irrigation organizationsacre-feet						···		
32 33	To other irrigation organizations onlyorganizations acre-feet								
34	No water conveyedorganizations	5				1			
	WATER FROM OTHER SOURCES								
35	Organizations reporting NO water from other sources used on land served by the organizationorganizations	58	96	40	g	33	40	11	7
36 37	acres served acres irrigated	10,879 8,399	74,379 67,207	142,596 140,985	542,447 533,008	7,461 4,823	39,747 27,595	111,953 69,759	637,344 615,151
38	Organizations reporting water from other sources used on land served by the organizationorganizations		1	,		,		,	,
39 40	acres irrigated	1,334	11,309	19,452 18,112	162,467	1,659	1,720	40,345	
	NEW CAPITAL INVESTMENT, 1950-1959	925	9,769	18,112	162,467	1,579	1,090	35,645	•••
1	Expenditures for additional new works and equipment for irrigation and drainage, January 1, 1950-becember 31, 1959	18	47	19	5	9	19	9	4
72	dollars WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959	7,040,111	260,414	468,002	1,147,190	6,265	73,294	640,043	10,623,714
43 44	Total entering conveyance systems in basinorganizations	61	111	46	10	37	42	17	7
45	From another drainage basinorganizations	19,318	265,656	1,043,252	2,434,362	14,366	133,747	407,319	4,025,907
46 47	acre-feet From Drainage Basin number			29,800	155,160	:::	:::	:::	
48 49 50	acre-feet	57 19,318	92 265,656	1,013,452	2,279,202	34 14,366	133,747	407,319	7 4,025,907
51	Surface waterorganizations	56 19,033	91 255,720	1,011,268	2,248,419	33 14,266	90,719	404,461	7 3,804,275
52 53	Ground waterorganizations acre-feet	1 285	9,936	2,184	30,783	100	43,028	2,858	221,632
54 55	From other organizations in the basin organizations receiving	3,830	37 153,339	78,808	125,626	1,093	3,872	79,738	324,660
56 57	Total leaving conveyance systemsorganizations acre-feet	61	111	46	10	37	42	17	7
58 59	Conveyance loss in basinorganizations	22,324 50	413,819 100	948,252 40	2,378,193	15,459	136,737	473,188 16	3,955,955
60 61	Conveyed to another drainage basinorganizations	2,008	59,339 1	145,608	489,522 1	1,995	18,458	95,425 1	1,143,355 2
62 63	To drainage basin numberD. B. No	:::	3,824	34,641	11,957	:::	:::	19,800	53,959
64	Delivered for use in the basinorganizationsacre-feet	60 20,316	109 350,656	768,003	10 1,876,714	13,464	118,279	17 357,963	6 2,758,641
65 66	To farm irrigation water usersorganizationsacre-feet	60 20,171	109 330,465	738,909	1,771,055	37 13,121	114,743	17 357,698	2,724,196
67 68	To residential water usersorganizations acre-feet	2 145	21 18,088	14 26,436	102,310	5 343	5 2,796	2 265	33,125
69 70	For other useorganizations acre-feet		2,103	2,658	3,349		740		1,320
71 72	Delivered to other irrigation organizations organizations delivering	1 824	5,176	12 173,808	161,795	:::}	1 882	13,869	394,612
	AVERAGE DELIVERY OF IRRIGATION WATER PER ACRE, 1959	02.4	,,,,,	2.5,000			002		_ , , ,
73	Per scre irrigated, as reported by irrigation organization: All organizationsscre-feet	2.2	4.3	4.2	5.5	2.0	4.0	3.5	4,5
74	All organizations	58	96	40	, a	33	40	11	7
75	acre-feet	2.3	4.4	5.1	5.0	2.3	3.6	3.6	4.5

State Table 5.—NUMBER OF IRRIGATION ORGANIZATIONS, TYPE OF SERVICE, NEW CAPITAL INVESTMENT, AND WATER CONVEYED, BY SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUS OF 1959—Continued

	Snake !	River above A	merican Falls	, Idaho	Вол	neville Basir	and Bear Riv	rer
Item		(1	-н)			(III-D and	i III-E)	
(For definitions and explanations, see text)			Size of or	ganization, b	y total water	conveyed		
	0-999 acre-feet	1,000- 9,999 acre-feet	10,000- 99,999 acre-feet	100,000 or more acre-feet	0-999 acre-feet	1,000- 9,999 acre-feet	10,000- 99,999 acre-feet	or more
Number of organizations	69	128	83	15	79	89	14	
ull water directly from surface and ground sourcesorganizations	53 20,734	90 335,586	49 1,593,078	12 2,988,235	70 30,861	73 225,632	9 334,721	
Total water conveyedacre-feet Water deliveredacre-feet	17,528	288,101	1,361,232	2,581,819	26,739	185,974	246,654	
To farm and residential users onlyorganizations acre-feet	52 16,692	87 276,912	39 1,015,571	1,037,519	70 26,739	70 174,518	118,594	
To farm and residential users and other irrigation organizationsorganizations	1	3	10	4		2	4	
Water to farm and residential usersacre-feet Water to other irrigation organizationsacre-feet	570 ; 266	4,839 6,350	142,463 203,198	498,069 908,291		3,400 1,016	20,849	
To other irrigation organizations onlyorganizations acre-feet				137,940		7,040		
Part of water from other organizationsorganizations		7	12	137,940		7,040		
Total water conveyed		46,817	356,843 1-1,223	258,063 1-11,523	135 23	10,773 1-868		
From other irrigation organizationsacre-feet		4,505 42,312	358,066	269,586	112	11,641		
Water deliveredacre-feet To farm and residential users onlyorganizations	:::	39 , 092	326,516 9	233,200	75 1	1,810		
To farm and residential users and other		39,092	256,124		75	1,810		
irrigation organizations	:::		47,702	208,804				
Water to other irrigation organizationsacre-feet To other irrigation organizations onlyorganizations			22,690	24,396			:::	
acre-feet	:::				:::	:::	:::	
All of water from other organizations	15 5,302	31 134,463	515,079	217,867	8 5,468	14 45,877	103,507	
Water deliveredacre-feet	4,760	120,406	455,566	211,807	4,783	34,890	91,995	
To farm and residential users onlyorganizations acre-feet	2,739	30 119,381	301,276	:::	8 4,783	14 34,890	19,984	
To farm and residential users and other irrigation organizationsorganizations	1 4	·	,	1			3	
Water to farm and residential usersacre-feet	359		90,593	47,212			20,685	
Water to other irrigation organizationsacre-feet To other irrigation organizations onlyorganizations	1,238		63,697	164,595			51,326	
acre-feet water conveyedorganizations	424	1,025		•••				
WATER FROM OTHER SOURCES	1	• • • • • • • • • • • • • • • • • • • •						
Organizations reporting NO water from other sources used								
on land served by the organizationorganizations acres served	64 12,690	107,683	67 250,835	275,351	62 14,999	76 93,217	13 66,085	
acres irrigated	11,822	96,876	236,905	256,997	11,678	83,986	63,185	
Organizations reporting water from other sources used on land served by the organizationorganizations	3	14	16	1	17	12	1	
acres served acres irrigated	453 453	25,070 19,530	73,665 73,241	30,000 30,000	4,839 4,539	26,231 23,414	12,250 12,250	
NEW CAPITAL INVESTMENT, 1950-1959					ĺ ,			
Expenditures for additional new works and equipment for irrigation and drainage,								
January 1, 1950-December 31, 1959	13,670	64 159,545	49 837,496	11 612,181	17 57,190	28 512,646	8 425,531	
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959	13,670	159,545	037,490	012,101	57,170	212,040	425,551	
Total entering conveyance systems in basinorganizations	68	128	83	15	79	89	14	
From another drainage basinorganizations	20,734	348,656 8	1,591,855	2,976,712	30,896	224,764	334,721	
From Drainage Basin numberD. 8. No		34,634			35	6,800	:::	
From natural sources within basinorganizations acre-feet	53 20,734	90 314,022	61 1,591,855	2,976,712	70 30,861	74 217,964	9 334,721	
Surface waterorganizations	48	85 283,586	55	2,974,112	54 23,162	73. 205,436	334,721	
acre-feet Ground waterorganizations	18,868	9	1,411,253	1	16	- 5		
acre-feet From other organizations in the basin organizations receiving	1,866 15	30,436 37	180,602 34	2,600	7,699 9	12,528 16		
acre-feet	5,302	168,210	873,145	487,453	5,568	57,518	103,507	
Total leaving conveyance systemsorganizations acre-feet	68 24,108	128 509,491	83 2,175,415	2,228,943	36,464	274,226	279,691	
Conveyance loss in basinorganizations acre-feet	62 3,481	125 64,312	79 318,823	15 436,075	77 4,547	86 45,20b	13 36,689	
Conveyed to another drainage basinorganizations		3,800		·	1 320	6 14,390	62,890	
To drainage basin number	67	126		15	79	88	14	
acre-feet	20,627	441,379	1,856,592	1,792,868	31,597	214,630	180,112	
	67 19,054	126 435,121	1,843,812	1,783,704	79 31,597	88 212,045	14 180,112	
To farm irrigation water usersorganizations acre-feet	6	5,103	9,917	7,900		2,573		
acre-feet To residential water usersorganizations	1.306		1	1		2		
acre-feet To residential water usersorganizations acre-feet For other useorganizations	1,306	5	2 062	1 967	l			
ancr-feet To residential water usersorganizations are-feet For other useorganizations organizations Delivered to other impatem organizations organizations delivering	2 267 6	1,155 4	2,863	1,264	:::	3	7	
acre-feet To residential water users. organizations.	2	5	2,863 19 289,585	1,264 7 1,235,222		3 8,056	7 158,537	
ance-feet. To residential water users	2 267 6 1,928	7,375	19 289,585	1,235,222		8,056	158,537	
acre-feet To residential water users. organizations.	2 267 6	1,155 4	19	7		3		

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State Table 1.-NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950

			Mississippi River excluding Arkansas			Arkansas	River (VI-B)		Three exclud	ri River be Forks, Mont ling Platte one Rivers	ana, and
	ltem (For definitions and explanations, see text)	Kansas and Oklahoma, total	and klahoma, fivers including Red River direct below Lake Texhoma (VI-A and VI-Aa)		Direct	Canadian River	Cimerron River	Pawnee River	Whitewoman Creek	Total	Direct	Kensas River
1	Total acres irrigated in Census year	959,733	127,000	652,000	226,000	51,000	262,000	34,000	79,000	181,000	1,000	180,000
2	1949 Irrigation organizationsorganizations 1959	185,201 16	36,996	139,834	78,184	4,627	23,401	9,039	24,583	8,371		8,371
4	1949	13	ī	11	10		1			i		i
5	Service area, 1959: Ferm area reported served by organizations	155,047	(D)	64,186	64,186					(D)		(D)
6	Farm area reported irrigated by organizationsscres 1959	106,468	(D)	46,304	46,304					(D)		(D)
7	Water users served, totalwater users 1959	1,105	(D)	320	320					(a)		(D)
8	Farm irrigation water userswater users 1959	1,104		320	320					(D)		(D)
9	Residential water userswater users 1959											•••
10	Other water userswater users 1959	1	1									•••
	LAND IRRIGATED BY SOURCE OF WATER, 1959	823,171	83,000	603,000	185,000	50,000	261,000	30,000	77,000	138,000	1,000	136,000
11	Ground water sourcesacres Surface water sourcesacres	136,562	44,000	49,000	41,000	1,000	1,000	4,000	2,000	43,000	1,000	44,000
12	WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959	250,500	4,000	47,000	42,000	1,000	1,000	4,000	1 2,000	45,000		,000
13 14	Total entering conveyance systems in organizations acre-feet	14 237,995	(D)	9 118,694	9 118,694		:::		:::	3 (D)	:::	3 (D)
15 16	From another drainage basinorganizations	1 31,047			:::					1 (D)		1 (D)
17	From drainage basin number											(D)
18 19	From natural sources within basinorganizations acre-feet	14 206,948	(D)	9 118,694	9 118,694		:::	:::		3 (D)	:::	3 (D)
20 21	Surface waterorganizations acre-feet	14 206,948	2 (D)	9 118,694	9 118,694		:::		:::	3 (D)	:::	3 (D)
22 23	Ground waterorganizations acre-feet			:::			:::	:::			:::	:::
24 25	From other organizations in the basinorganizations receiving	1 55,294	1 (D)			:::		:::	:::	:::		:::
26 27	Total leaving conveyance systemsorganizations acre-feet	14 237,995	2 (D)	9 118,694	9 118,694			:::	:::	3 (D)	:::	3 (D)
28 29	Conveyance loss in basinorganizationsacre-feet	71,773	(D)	8 27,095	8 27,095	:::				(D)	:::	3 (D)
30 31	Conveyed to another drainage basinorganizations acre-feet				:::	:::		:::		:::	:::	:::
32	To drainage basin numberD. B. No											
33 34	Delivered for use in the basinorganizations acre-feet	13 166,222	(D)	9 91,599	9 91,599	:::	:::	:::	:::	3 (D)	:::	3 (D)
35 36	To farm irrigation water usersorganizations acre-feet	13 162,301	(D)	9 91,599	9 91,599			:::	:::	(D)	:::	(D)
37 38	To residential water usersorganizations acre-feet	:::	:::	:::	:::	:::	:::	:::	:::	:::	:::	:::
39 40	For other useorganizations acre-feet	3,921	(D)	:::	:::	:::	:::	:::	:::	:::	:::	:::
41 42	Delivered to other imagation organizations delivering organizations delivering acre-feet	1 55,294	(D)	:::	:::	:::	:::	:::	:::	:::		
43	Average delivery of irrigation water per acre irrigated as reported by organizationsacre-feet	1.9	(D)	2.0	2.0					(D)		(D)
44	NEW CAPITAL INVESTMENT, 1950-1959 Expenditures for additional new works and equipment for irrigation and drainage, Jan. 1, 1950-Dec. 31, 1959 organizations	11 42,311,394	(D)	4 66,450	66,450	, :::		:::		5 (D)		5 (D)

D Data not shown to avoid disclosure of information for individual organizations.

State Table 2.-NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950

Item (For definitions and explanations, see text)	Kanses and Oklahoma, total	Item (For definitions and explanations, see text)	Kaness and Oklahoma, total
Irrigetion organizations, total number	16	TYPE OF SERVICE, 1959	
Area irrigated as reported by	13	All water directly from surface and ground water sourcesorganizations Total water conveyedacre-feet	12 193,854
organizationsacres 1959 1949 Farm water users served directlywater users 1959	106,468 78,489 1,104	Water delivered	156,377
Total water conveyedacre-feet 1959 TYPE OF ORGANIZATION	293,289	users onlyorganizations acre-feet	101,083
TYPE OF ORGANIZATION Mutual:		To farm and residential users and other irrigation organizationsorganizations	
Unincorporatedorganizations 1959	2 4	Water to farm and residential usersacre-feet	
Farm area irrigated directlyacres 1959 Farm water users served directlywater users 1959	(D)	Water to other irrigation organizationsacre-feet	
Total water conveyedacre-feet 1959	(D)	To other irrigation organizations onlyorganizations	1 55.294
Incorporatedorganizations 1959 1949	8 8	Part of water from other	, ,,,,,
Farm water users served	45,774	organizationsorganizations Total water conveyedacre-feet	99,435
directlywater users 1959 Total water conveyedacre-feet 1959	307 117,634	From surface and ground water sourcesacre-feet From other irrigation	13,094
Districtorganizations 1959 1949	2	organizationsacre-feet	86,341
Farm water users served	(D)	Water delivered	61,218
directlywater users 1959 Total water conveyedacre-feet 1959	(D) (D)	acre-feet To farm and residential users and other	61,218
U.S. Bureau of Reclamation; projects and stor-		irrigation organizationsorganizationa Weter to farm and residential	
age systems operated by bureauorganizations 1959 1949 Farm area irrigated directlyacres 1959	1	users	
Farm water users served directlywater users 1959	6,470 120	To other irrigation organizations onlyorganizations	···
Total water conveyedacre-feet 1959	75,140	All of water from other	
U. S. Bureau of Reclamation; operated by water users	2	organizations. organizations. Total water conveyedacre-feet.	
Farm area irrigated directlyacres 1959	1 (D)	Water deliveredacre-feet	
Farm water users served directlywater users 1959	(D)	To farm and residential users onlyorganizations acre-feet	
Total weter conveyedacre-feet 1959	(a)	To farm and residential users and other irrigation	
U. S. Bureau of Indian Affairsorganizations 1959 1949 Farm area irrigated directlyacres 1959	•••	organizationsorganizations Water to farm residential	•••
Farm water users served directly		users	•••
Total water conveyedacre-feet 1959	:::	To other irrigation organizations onlyorganizations	
Commercialorganizations 1959	:::	acre-feet	:::
Farm area irrigated directlyacrea 1959 Farm water users served	:::	No water conveyedorganizations	2
directlywater users 1959 Total water conveyedacre-feet 1959	:::	WATER FROM OTHER SOURCES Organizations reporting no water from	
Stateorganizations 1959		other sources used on land served by the organization	10 133,631
Farm area irrigated directlyacres 1959 Farm water users served	:::	acres irrigated Water delivered to farmsacre-feet	90,578 122,981
directlywater users 1959 Total water conveyedacre-feet 1959		acre-feet per acre	1.4
Cityorganizations 1959		Organizations reporting water from other sourcea used on land served by the	
Farm area irrigated directlyacres 1959	:::	organizationorganizations acres served acres irrigated	3 21,416 15,890
Farm water users served directlywater users 1959 Total water conveyedacre-feet 1959	:::	Water delivered to farmsacre-feet	39,320 2.5
D Data not shown to avoid disclosure of information for it	1	acre-feet per acre	2.5

State Table 2.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Continued

I tem $\label{eq:formula}$ (For definitions and explanations, see text)	Kansas and Oklahoma, total	Item (For definitions and explanations, see text)	Kansas and Oklahoma, total
WATER DELIVERED PER ACRE		SIZE OF ORGANIZATION—Continued	
Organizations reporting NO water from other sources used on same land:		Size of organization (acre-feet of water delivered directly to farms):	
0.1 to 0.9 acre-feet per acreorganizations acres irrigated	3 40,954	Noneorganizations	3
1.0 to 1.9 acre-feet per acreorganizations acres irrigated	5 40,340	1 to 299 acre-feetorganizations	1 19
2.0 to 2.9 scre-feet per acreorganizations scres irrigated	6,884	300 to 999 acre-feetorganizations	1
3.0 to 3.9 acre-feet per acreorganizations acres irrigated		acre-feet	800
4.0 to 4.9 acre-feet per acreorganizations acres irrigated	1 2,400	1,000 to 2,999 acre-feetorganizations	1,807
5.0 to 5.9 acre-feet per acreorganizations	· · · ·	3,000 to 9,999 acre-feetorganizations	. 3
acres irrigated 6.0 to 6.9 acre-feet per acreorganizations		acre-feet	17,295
7.0 to 7.9 acre-feet per acreorganizations		10,000 to 29,999 acre-feetorganizations acre-feet	111,023
8.0 to 9.9 acre-feet per acreorganizations	:::1	30,000 to 99,999 acre-feetorganizations	1
acres irrigated 10.0 or more acre-feet		acre-feet 100,000 or more acre-feetorganizations	31,357
per acreorganizations		acre-feet	
acres irrigated		Size of organization (acre-feet of water	
SIZE OF ORGANIZATION		conveyed): Noneorganizations	2
Size of organization (number of farm irrigation water users served directly):		1 to 299 acre-feetorganizations	1,080
Noneorganizations	3	300 to 999 acre-feetorganizations	
1 to 3organizations		acre-feet	•••
4 to 9organizations	1 4	1,000 to 2,999 acre-feetorganizations	1
water users 10 to 29organizations	5	acre-feet 3,000 to 9,999 acre-feetorganizations	1,902
water users 30 to 99organizations	73	acre-feet	9,620
weter users 100 to 299organizations	247 2	10,000 to 29,999 scre-feetorganizations	7
water users 300 to 999organizations	357	acre-feet 30,000 to 99,999 acre-feetorganizations	171,159
water users	1 423	acre-feet	2 109,528
1,000 or moreorganizations water users		100,000 or more acre-feetorganizations acre-feet	***

State Table 3.-LAND IRRIGATED BY SOURCE OF WATER, BY DRAINAGE BASINS: CENSUS OF 1959

Item (For definitions and explanations, see text)	Kaneas and Oklahoma, total	Missouri River below Three Forks, Montans, excluding Platte and Yellowstone Rivers	Missinsing River, excluding Missouri River and Red River direct below Lake Texhous	Red River direct below Lake Texhoms
		(VI-C)	(VI-A and VI-B)	(VI-As)
Total savor immigrated forms reporting	7.072			59
	,			3,134
				25
acres	, ,		,	1,451
Sprinklers onlyfarms reporting				24
acres	,		· · · · · · · · · · · · · · · · · · ·	1,396
LAND IRRIGATED, BY SOURCE OF WATER TO INDIVIDUAL FARMS, 1959	,		,	- -
Ground water sources on farmfarms reporting	5,426	1,113	4,301	12
acres	823,171	138,093	684,438	640
Ground water sources on farm only.farms reporting	5,087	1,048	4,028	11
acres	783,326	133,891	648,859	576
Surface sources on farmfarms reporting	1,213	500	668	45
acres	56,331	21,039	32,889	2,403
Surface sources on farm onlyfarms reporting	1,022	435	543	44
acres	47,631	18,784	26,460	2,387
Irrigation organization sourcesfarms reporting	803	299	501	3
ccres	80,231	21,977	58,163	91
Irrigation organization sources onlyfarms reporting	596	276	317	3
acres	52,798	20,402	32,305	91
Both farm ground water sources and surface sources	161	54	106	1
acres	18,564	5,376	13,108	80
Both irrigation organization and farm ground water or farm surface sourcesfarms reporting	207	23	184	
acres	57,414	2,656	54,758	
	(For definitions and explanations, see text) Total acres irrigated	(For definitions and explanations, see text) Kansas and Oklahoma, total Total acres irrigated	Kaness and Oklahoms, total Forks, Mentams, excluding Flate and Fellowstone	Forke, Montana, escluding Plate and Fellowatone Rivers

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950

			Kansa	s and Oklahoma, t	otal		
Item (For definitions and explanations, see text)		Mut	ual		U. S. Bureau	of Reclamation	
(For Sermician and Capanicalist, 601 and 7)	All types	Unincorporated	Incorporated	District	Projects and storage systems operated by bureau	Operated by water users	Commercial, Indian, State, city, and other
Irrigation organizationsorganizations 1959	16 13	2 4	8	2	4 1	2 1	:::
Service area, 1959: Area served, as reported by organizations	155,047	(D)	63,656	(D)	11,500	(D)	
by organizationsacres	106,468	(D)	45,774	(D)	6,470	(D)	
Water users served, 1959, total water users Farm irrigation water users water users. Residential water users water users. Other water users water users.	1,105 1,104 	(D) (D) 	307 307 	(D) 	120 120	(D) (D) (D)	:::
TYPE OF SERVICE, 1959							
All water directly from surface and ground water sources organizations. Total water conveyed acre-feet water delivered acre-feet. To farm and residential users only organizations.	12 193,854 156,377	2 (D) (D)	8 117,634 90,799		75,140 64,759		
acre-feet To farm and residential users and other	101,083	(D)	90,799		9,465		
irrigation organizationsorganizations Water to farm and residential					• • • •		
usersacre-feet Water to other irrigation organizationsacre-feet	•••					•••	•••
To other irrigation organizations onlyorganizations							
acre-feet	55,294	:			55,294	:::	:::
Part of water from other organizations organizations. Total water conveyed acre-feet. From surface and ground water	99,435	•••		(D)	:::	2 (D)	:::
sources	13,094 86,341 61,218		•••	(D) (D) (D)		(D) (D) (D)	***
onlyorganizations acre-feet	61,218			(D)		2 (D)	
To farm and residential users and other irrigation organizations organizations Water to farm and residential							
users							
To other irrigation organizations onlyorganizations							
acre-feet All of water from other organizationsorganizations							
Total water conveyed				:::	::::		:::
onlyorganizations		:::		:::	:::	:::	
To farm and residential users and other irrigation organizationsorganizations Water to farm and residential							
users							
organizationsacre-feet To other irrigation organizations							•••
onlyorganizations scre-feet No water conveyedorganizations	2						
WATER FROM OTHER SOURCES	~				~	•••	
Organizations reporting no water from other sources used on the land served by the organization	10	2	5	2	1	2	
acres served acres irrigated water delivered to farms (acre-feet) acre-feet per acre	133,631 90,578 122,981	(D) (D) (D) (D)	42,240 29,884 51,479 1.7	(D) (D) (D) (D)	11,500 6,470 9,465 1.5	(D) (D) (D) (D)	:::
Organizations reporting water from other sources used on land served by the organization	3		3			(D)	
acres served acres irrigated water delivered to farms (acre-feet) acre-feet per acre	21,416 15,890 39,320 2.5	 	21,416 15,890 39,320 2.5		:::		
NEW CAPITAL INVESTMENT, 1950-1959 Expenditures for additional new works and equipment for irrigation and drainage, January 1, 1950-becember 31, 1959	11 42,240,944 70,450	1 (D)	4 66,450	(D)	38,414,301 	(D)	··· ···

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

			Kansa	s and Oklahoma, t	otal		
Item (For definitions and explanations, see text)		Mut	ual		U. S. Bureau	of Reclamation	Commercial
	All types	Unincorporated	Incorporated	District	Projects and storage systems operated by burnau	Operated by water users	Indian, State, city, and other
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959							
Total entering conveyance systemsorganizations acre-feet	14 237,995	(D)	117,634	(D)	75,140	(D)	
From another drainage basinorganizations	1 31,047			1 (D)		1 (D)	
From drainage basin		:::					
From sources within basinorganizations acre-fect	14 206,948	(D)	117,634	(D)	75,140	(D)	
Surface waterorganizations acre-feet	14 205,948	(D)	117,634	(D)	75,140	(D)	:::
Ground waterorganizations acre-feet			:::	:::			
From other organizations in the basin organizations receiving	1 55,294			1 (D)		(D)	
Total leaving conveyance systemsorganizations acre-feet	14 237,995	(D)	8 117,634	2 (D)	19,846	(D)	:::
Conveyance loss in basinorganizationsacre-feet	12 71,7 7 3	(D)	7 26,835	2 (D)	10,381	(D)	
Conveyed to another drainage basinorganizations acre-feet	***	:::				:::	
To drainage basin number							
Delivered for use in the basinorganizations acre-feet	13 166,222 13	(D)	90,799 8	(D)	9,465	(D)	:::
To farm irrigation water usersorganizations acre-feet To domestic water usersorganizations	162,301	(D)	90,799	(D)	9,465	(D)	:::
For other useorganizationsacre-feet	1 3,921			1 (D)			
Velivered to other impation organisations	1 55,294				1 55,294	1 (D)	
SIZE OF ORGANIZATION, 1959							
Size of organization (number of farm irrigation water users). Organizations 1 to 3 water users organizations. 4 to 9 water users organizations. 4 to 9 water users organizations. 30 to 99 water users organizations. 100 to 299 water users organizations. 100 to 299 water users organizations. 300 to 999 water users organizations. 1,000 or sore water users organizations. 1,000 or more water users organizations.	3 1 5 4 2 1	(D) (D) (D) (D) (D)	 4 	(D) (D) (D) (D) (D)	3 ' 1	(D) (D) (D) (D) (D) (D) (D)	
Size of organization (acre-feet of water delivered directly to farms):	3	(D)		(7)	3	(D)	
None organizations 1 to 299 acre-feet organizations 300 to 999 acre-feet organizations 1,000 to 2,999 acre-feet organizations 3,000 to 9,999 acre-feet organizations 10,000 to 29,999 acre-feet organizations 30,000 to 99,999 acre-feet organizations 100,000 or acre acre-feet organizations	1 1 3 6 1	(D) (D) (D) (D) (D) (D)	1 2 5	(D) (D) (D) (D) (D) (D) (D)	1	(D) (D) (D) (D) (D) (D) (D)	
Size of organization (acre-feet of water conveyed):	2	/51		(D)	2	(D)	
None	2 2 1 2 7 2 	(D) (D) (D) (D) (D)	 1 2 5	(D) (D) (D) (D)	1 1	(D) (D) (D) (D) (D) (D)	

D Data not shown to avoid disclosure of information for individual organizations.

State Table 5.–NUMBER OF IRRIGATION ORGANIZATIONS, TYPE OF SERVICE, NEW CAPITAL INVESTMENT, AND WATER CONVEYED, BY SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUS OF 1959

Ttom		Kansas and Ok	Clahoma, total	
(For definitions and explanations, see text)		Size of organization,	by total water conveyed	
	0-999 acre-feet	1,000-9,999 acre-feet	10,000-99,999 acre-feet	100,000 or more sore-feet
Number of organizationsorganizations TYPE OF SERVICE	4	3	9	•
All water directly from surface and ground sourcesorganizations	2	3	7	
Total water conveyedacre-feet Water deliveredacre-feet	1,080	11,522 9,637	181,252 145,921	
To farm and residential users onlyorganizations acre-feet	2 819	3 9,637	90,627	
To farm and residential users and other		,		•
irrigation organizationsorganizations Water to farm and residential usersacre-feet		• • • • • • • • • • • • • • • • • • • •		:
Water to other irrigation organizationsacre-feet To other irrigation organizations onlyorganizations				:
acre-feet	***		55,294	:
Part of water from other organizationsorganizations	***		99,435	
Total water conveyed			13,094	:
From other irrigation organizationsacre-feet Water deliveredacre-feet			86,341 61,218	:
To farm and residential users onlyorganizations acre-feet		:::	61,218	
To farm and residential users and other irrigation organizations			01,218	
Water to farm and residential usersacre-feet	***			:
Water to other irrigation organizationsacre-feet To other irrigation organizations onlyorganizations				:
acre-feet			:::	:
All of water from other organizationsorganizations	***			
Total water conveyedacre-feet Water deliveredacre-feet	***			:
To farm and residential users onlyorganizations acre-feet	***			:
To farm and residential users and other irrigation organizationsorganizations				·
Water to farm and residential usersacre-feet				
Water to other irrigation organizationsacre-feet To other irrigation organizations onlyorganizations	***			
acre-feet	***			
No water conveyedorganizations	2			•
WATER FROM OTHER SOURCES				
Organizations reporting NO water from other sources used on land served by the organizationorganizations	2	2	6	
acres served acres irrigated	845 570	5,100 4,600	127,686 85,408	
Organizations reporting water from other sources used		.,,	03,400	•
on land served by the organizationorganizations		1,416	20,000	
acres irrigated		1,290	14,600	
NEW CAPITAL INVESTMENT, 1950-1959				
Expenditures for additional new works and equipment for irrigation and drainage, January 1, 1950-December 31, 1959organizations				
January 1, 1950-December 31, 1959organizations	20.084.132	1 3,850	22,223,412	
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959	40,007,224	2,000	££,££5,4££	•
Total entering conveyance systems in basinorganizations	2	3	9	
From another drainage basinorganizations	1,080	11,522	225,393	:
From Drainage Basin numberD. B. No			31,047	
From natural sources within basinorganizations			9	:
Surface waterorganizations	1,080	11,522	194,346	:
Ground waterorganizations	1,080	11,522	194,346	
acre-feet From other organizations in the basinorganizations receiving				
r ram viner arganizations in the vasinorganizations receiving			55,294	:
Total leaving conveyance systemsorganizations	2	3	9	
Conveyance loss in basinorganizations	1,080	11,522	225,393	:
acre-feet Conveyed to another drainage basinorganizations	261	1,885	69,627	:
		•••	***	
To drainage basin number	2			
To farm irrigation water usersorganizations	819	9,637	155,766	:
acre-feet To residential water usersorganizations	819	9,637	151,845	
acre-feet	•••			
For other useorganizations	:::	···	3,921	:
Delivered to other irrigation organizations organizations delivering			1	:
acte-feet AVERAGE DELIVERY OF IRRIGATION WATER PER ACRE, 1959			55,294	•
Per acre irrigated, as reported by irrigation organization:				
All organizations	1.4	1.6	1.5	••
on land served by the organizationorganizations	2	2	6	:
acre-feet	1.4	1.1	1.4	

LOUISIANA

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State Table 1.-NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950

					Bulf of Mexic	excluding M	iseissippi an	d Mermentau R	ivers (V-A)	
	Item (For definitions and explanations, see text)	The State	Gulf of Mexico excluding Mississippi River, total	Total	Gulf of Mexico direct	Sabine River	Ca Total	Calcasieu River River direct	Bayou Serpent	Vermilion River and Atchafalaya River
					(la)	(9a)		(10a)	(10ъ)	(11, 12)
1	Total acres irrigated in Census year1959	484,850	467,000	188,000	27,000	8,000	88,000	64,000	24,000	65,000
2	1949	597,966	589,996	224,393	15,317	19,703	101,809	64,420	37,389	87,564
4	Irrigation organizationsorganizations 1959 1949	321	321	777	2	2	44	23	25	31
5	Service area, 1959: Farm area reported served by organizationsacres 1959	297,471	297,471	68,919	4,937	16,814	31,115	20,533	10,582	16,053
6	Farm area reported irrigated by organizationsacres 1959	185,539	185, 539	60,532	4,937	11,022	29,745	20,280	9,465	14,828
7	Water users served, totalwater users 1959	2,946	2,946	581	24	44	192	119	73	321
8	Farm irrigation water userswater users 1959	2,946	2,946	581	24	44	192	119	73	321
9	Residential water userswater users 1959									
10	Other water usersweter users 1959									
	LAND IRRIGATED BY SOURCE OF WATER, 1959	263,482	255,000	78,000	9,000	3.000	44,000	28,000	16,000	22,000
11	Ground water sources	203,462	212,000	110,000	18,000	3,000 5,000	44,000	36,000	8,000	43,000
L	WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959	222,500	222,000	110,000	10,000	,,,,,,	47,000	30,000	0,000	45,000
13 14	Total entering conveyance systems in basinorganizations acre-feet	203 617,850	203 617,860	35 265,901	3 11,609	3 67,609	19 122,671	12 89,545	11 36,675	13 83,193
15 16	From another drainage basinorganizations acre-feet			2,182	2,295		19,068	19,963	2,654	
17	From drainage basin numberD. B. No			·	(1)			(²)	(3)	
18 19	From natural sources within basinorganizations acre-feet	203 617,850	203 617,850	34 263,719	9,314	3 67,609	16 103,603	8 69,582	8 34,021	13 83,193
20 21	Surface waterorganizations acre-feet	68 516,572	68 516,572	18 248,022	9,314	3 65,061	94,044	67,504	26,540	79,603
22 23	Ground waterorganizations acre-feet	148 101,278	148 101,278	16 15,697		1 2,548	8 9,559	2,078	7 7,481	7 3,590
24 25	From other organizations in the basin		:::							:::
26 27	Total leaving conveyance systemsorganizations acre-feet	203 617,850	203 617,850	35 265,901	3 11,609	3 67,609	19 122,671	12 89,545	11 36,675	13 83,193
28 29	Conveyance loss in basinorganizations acre-feet	170 50,046	170 50,046	27 20,770	2 120	3 4,889	16 6,490	11 3,282	9 3,208	13 9,271
30 31	Conveyed to another drainage basinorganizations acre-feet			3 18,306	2,000	1 16,651	1 835	2,252	1 2,132	18,001
32	To drainage basin number				(4)	VA-10a	VD-1	(5)	VA-10a	(6)
33 34	Delivered for use in the basinorganizations acre-feet	203 567,804	203 567,804	35 226,825	9,489	3 46,069	19 115,346	12 84,011	11 31,335	13 55,921
35 36	To farm irrigation water usersorganizations acre-feet	203 567,804	203 567,804	35 226,825	3 9,489	3 46,069	19 115,346	12 84,011	11 31,335	13 55,921
37 38	To residential water usersorganizations acre-feet		:::					:::		
39 40	For other useorganizations		:::							
41 42	l'elivered to other impation organizations delivering acte-leet						:::			
43	Average delivery of 'irrigation water per acre irrigated as reported by organizationsacre-feet	3.1	3.1	3.7	1.9	4.2	3.9	4.1	3.3	3.8
44	NEW CAPITAL INVESTMENT, 1990-1999 Expenditures for additional new works and equipment for irrigation and drainage, Jan. 1, 1990-bec. 31, 1999organizationsdollars	109 2,054,686	109 2,054,686	15 284,700	30,000	113,000	5 81,500	3 61,000	20,500	8 60,200

^{11,730} acre-feet from D. B. No. V-A-1a. 16,651 acre-feet from D. B. No. V-A-1b. 800 acre-feet from D. B. No. V-A-1a. 16,651 acre-feet from D. B. No. V-A-1b. 800 acre-feet to D. B. No. V-A-1ba. 21,417 acre-feet to D. B. No. V-A-1bb. 835 acre-feet to D. B. No. V-A-1bb. 835 acre-feet to D. B. No. V-A-1bb. 835 acre-feet to D. B. No. V-B-1. 41,200 acre-feet to D. B. No. V-B-1. 1,730 acre-feet

State Table 1.-NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950-Continued

			Mermentau F	tiver (V-D)		Mias	issippi River (VI	-A)
	Item (For definitions and explanations, see text)	Total	Mermentau River direct	Nezpique Bayou	Bayou Queue de Tortue	Total	Mississippi River direct	Red River
			(1)	(2)	(3)		(1)	(26)
1 2	Total scres irrigated in Census year	279,000 365,603	91,000 94,713	123,000 180,506	65,000 90,384	18,000 7,970	15,000 6,321	3,000 1,649
3	Irrigation organizationsorganizations 1959	176 252	27 27	136 193	19 41			
5	Service area, 1959: Farm area reported served by organizationsscres 1959	228,552	34,241	173,179	21,132			
6	Farm area reported irrigated by organizationsacres 1959	125,007	28,101	80,784	16,122			
7	Water users served, totalwater users 1959	2,365	430	1,661	274			
8	Farm irrigation water userswater users 1959	2,365	430	1,661	274			
9	Residential water userswater users 1959							
10	Other water userswater users 1959							
	LAND IRRIGATED BY SOURCE OF WATER, 1959	155 000						
11	Ground water sourcesacres	177,000	39,000	100,000	38,000	9,000	8,000	1,000
12	Surface water sourcesacres	102,000	52,000	23,000	27,000	9,000	7,000	2,000
13	WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959 Total entering conveyance systems in basin	175 372,437	27 123,751	136 240,187	19 64,927			
15 16	From another drainage basinorganizations	16,271	4 26,487		3 48,247			***
17	From drainage basin numberD. B. No		(1)		(2)			
18 19	From natural sources within basinorganizations acre-feet	173 354,131	21 97,264	136 240,187	18 16,680		:::	
20 21	Surface waterorganizations acre-feet	52 268,550	14 86,938	32 170,842	10,770			
22 23	Ground waterorganizations acre-feet	132 85,581	7 10,326	112 69,345	13 5,910		:::	
24 25	From other organizations in the basin			:::				
26 27	Total leaving conveyance systemsorganizations acre-feet	175 372,437	27 123,751	136 240,187	19 64,927			
28 29	Conveyance loss in basinorganizations acre-feet	148 29,276	20 6,325	116 13,289	19 9,662			
30 31	Gonveyed to another drainage basinorganizations	4 380	1 29,630	1 28,604	1 376		:::	
32	To drainage basin number		(3)	(4)	DB-VD-1			
33 34	Delivered for use in the basinorganizations	175 340,979	27 87,796	136 198,294	19 54,889			
35 36	To farm irrigation water usersorganizations acre-feet	175 340,979	27 87,796	136 198,294	19 54,889		:	
37 38	To residential water usersorganizations		•••		:::			
39 40	For other useorganizations			:::				
41 42	Delivered to other impation organizations delivering acre-feet						:::	
43	Average delivery of irrigation water per acre irrigated as reported by organizationsacrc-feet	2.7	3.1	1.1	3,4			•••
44 45	NEW CAFITAL INVESTMENT, 1990-1959 Expenditures for additional new works and equipment for irrigation and drainage, Jan. 1, 1990-Dec. 31, 1959organizations dollars	95 1,769,986	9 141,740	74 1,526,649	12 101,597		:::	

124,076 acre-feet from D. B. No. V-D-2, 376 acre-feet from D. B. No. V-D-3, 1,200 acre-feet from D. B. No. V-A-1a, 835 acre-feet from D. B. No. V-A-10a. 23,291 acre-feet from D. B. No. V-A-1b. 380 acre-feet to D. B. No. V-A-10a, 565 acre-feet to D. B. No. V-A-1b. 393 acre-feet to D. B. No. V-A-1b. 393 acre-feet to D. B. No. V-D-2. 4,276 acre-feet to D. B. No. V-A-1b. 393 acre-feet to D. B. No. V-D-2. 4).

State Table 2.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950

Item (For definitions and explanations, see text)	Louisiana, total	Item (For definitions and explanations, see text)	Louisiana, total
Irrigation organizations, total	203	TYPE OF SERVICE, 1959	
numberorganizations 1959 1949	321	All water directly from surface and ground water sourcesorganizations	20
Area irrigated as reported by organizationsacres 1959	185,539	Total water conveyedacre-feet	617,8
1949 Farm water users served directlywater users 1959 Total water conveyed	260,897 2,946 617,850	Water deliveredscre-feet To farm and residential users onlyorganizations	567,80 20
TYPE OF ORGANIZATION		acre-feet	567,80
Mutual:		To farm and residential users and other irrigation organizationsorganizations	
Unincorporatedorganizations 1959	37 47	Water to farm and residential usersacre-feet	
Farm area irrigated directlyacres 1959 Farm water users served	(D)	Water to other irrigation organizationsacre-feet	••
directly water users 1959 Total water conveyed	(D)	To other irrigation organizations onlyorganizations	••
	1	onlyorganizations acre-feet	••
Incorporatedorganizations 1959	4	Part of water from other	
Farm water users served	(D)	organizationsorganizations Total water conveyedacre-feet	
directlywater users 1959 Total water conveyedacre-feet 1959	(D)	From surface and ground water sourcesacre-feet	
		From other irrigation organizationsacre-feet	
Districtorganizations 1959	***	Water deliveredacre-feet	
Farm area irrigated directlyacres 1959 Farm water users served		To farm and residential users onlyorganizations	
directly	•••	To farm and residential users and other irrigation organizationsorganizations	•
J.S. Bureau of Reclamation; projects and stor- age systems operated by hureauorganizations 1959 1949		Water to farm and residential users	
Farm area irrigated directlyacres 1959 Farm water users served	:::	organizations	•
directly		acre-feet	
7. S. Bureau of Reclamation, operated		All of water from other organizationsorganizations	
by water users organizations 1959	***	Total water conveyedacre-feet	
Farm area irrigated directlyacres 1959 Farm water users served	***	Water deliveredacre-feet To farm and residential	•
directlywater users 1959 Total water conveyedacre-feet 1959		users onlyorganizations	
		To farm and residential users and other irrigation	
J. S. Bureau of Indian Affairsorganizations 1959 1949	***	organizationsorganizations Water to farm residential	
Farm area irrigated directlyacres 1959 Farm water users served	•••	usersacre-feet Water to other irrigation	
directlywater users 1959 Total water conveyedacre-feet 1959		organizationsacre-feet To other irrigation organizations	•
Commercialorganizations 1959	165	onlyorganizations	•
1949 Farm area irrigated directlyacres 1959 Farm water users served	270 175,837	No water conveyedorganizations	
directlywater users 1959 Total water conveyedacre-feet 1959	2,806 593,582	WATER FROM OTHER SOURCES Organizations reporting No water from	
Stateorganizations 1959 1949	***	other sources used on land served by the organization	207,4°
Farm area irrigated directlyacres 1959 Farm water users served		acres irrigated Water delivered to farmsacre-feet	185,5: 567,80
directlywater users 1959 Total water conveyedacre-feet 1959	•••	acre-feet per acre	3
Cityorganizations 1959	***	Organizations reporting water from other sources used on land ser ed by the	
Farm area irrigated directlyacres 1959		organizationorganizations acres served	
Ferm water users served		acres irrigated	
directly		Water delivered to farmsacre-feet	

D Data not shown to avoid disclosure of information for individual organizations.

State Table 2.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Continued

Item (For definitions and explanations, see text)	Louisiana, total	Item (For definitions and explanations, see text)	Louisiana, total
WATER DELIVERED PER ACRE Organizations reporting NO water from other sources used on sea land: 0.1 to 0.9 acre-feet per acreorganizations. ncres irrigated. 1.0 to 1.9 acre-feet per acreorganizations. acres irrigated. 2.0 to 2.9 acre-feet per acreorganizations. 3.0 to 3.9 acre-feet per acreorganizations. acres irrigated. 4.0 to 4.9 acre-feet per acreorganizations. 5.0 to 5.9 acre-feet per acreorganizations. 6.0 to 6.9 acre-feet per acreorganizations. 7.0 to 7.9 acre-feet per acreorganizations. acres irrigated. 3.0 to 9.9 acre-feet per acreorganizations. acres irrigated. 3.0 to 9.9 acre-feet per acreorganizations. acres irrigated. 10.0 or more acre-feet	1,13° 77,487 90,79,766 73,88 22,157 1,50,289 90,90,90,90,90,90,90,90,90,90,90,90,90,9	SIZE OF ORGANIZATION—Continued Size of organization (sere-feet of water delivered directly to farms): None organizations. 1 to 299 mcre-feet	 9,665 51,332 24, 55,375 16, 78,337 91,213 172,378
per scre	 	Size of organization (acre-feet of water conveyed): None	 4 3 9,020 98 56,311 35 58,817 16 84,211 6 4 23,100 1 128,000

IRRIGATION OF AGRICULTURAL LANDS

State Table 3.-LAND IRRIGATED BY SOURCE OF WATER, BY DRAINAGE BASINS: CENSUS OF 1959

Louisiana, total	Item (For definitions and explanations, see text)	Louisiana, total	Item (For definitions and explanations, see text)
	LAND IRRIGATED, BY SOURCE OF WATER TO INDIVIDUAL FARMS, 1959—Continued	4,817	Total acres irrigatedfarms reporting
1,0	Surface sources on farm	484,850	acres.,.
130,47	scres	166	Acres irrigated by sprinklersfarms reporting
79	Surface sources on farm onlyfarms reporting	4,419	acres
105,77	acres		Sprinklers only
1,19	Irrigation organization sourcesfarms reporting	150	Sprinklers daily
108,71	acres Irrigation organizations sources	4,052	acres
81,30	only		LAND IRRIGATED, BY SOURCE OF WATER TO INDIVIDUAL FARMS, 1959
•	Both farm ground water sources	3,047	Ground water sources on farmfarms reporting
15	and surface sourcesfarms reporting	245,662	scres
33,59	Both irrigation organization and farm ground	2,672	Ground water sources on farm onlyfarms reporting
30	water or farm surface sourcesfarms reporting		uround water sources on tarm onlylarms reporting
54,25	acres	209,972	acres

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950

				Louisiana, total			
Item		Mut	ual		H & D	0.0 1	
(For definitions and explanations, see text)	All types	Unincorporated	Incorporated	District	Projects and storage systems operated by bureau	Operated by	Commercial, Indian, State, city, and other
Irrigation organizationsorganizations 1959	203	37	1				165
Service area, 1959: Area served, as reported by organizationsacres	321 297,471	(D)	(D)				270
Area irrigated, as reported by organizationsacres	185,539	(D)	(D)				175,837
Water users served, 1959, total. water users. Farm irrigation water users water users. Residential water users water users. Other water users water users.	2,946 2,946	(D) (D)	(D) (D)				2,806 2,806
TYPE OF SERVICE, 1959							***
All water directly from surface and ground water sources. organizations organizations fotal water conveyed acre-feet water delivered acre-feet for farm and residential users only. organizations	203 617,850 567,804 203	37 (D) (D)	(D) (D)		:	: :	165 593,582 545,116
To farm and residential users and other	567,804	(D)	(D)	:::	:::		165 545,116
irrigation organizationsorganizations Water to farm and residential	•••	• • •					
usersacre-feet Water to other irrigation organizationsacre-feet	•••	***					•••
To other irrigation organizations organizations							•••
Part of water from other				:::	:::	:::	
organizations organizations Total water conveyed acre-feet From surface and ground water	:::			:::		:::	
sources: acre-feet. From other irrigation organizations acre-feet. Water delivered acre-feet To farm and residential users only. organizations.				:::			
To farm and residential users and other irrigation organizationsorganizations Water to farm and residential							
users							
To other irrigation organizations only		:::			:::		
All of water from other organizationsorganizations Total water conveyed	:::	:::		:::	:::	:::	
onlyorganizations acre-feet To farm and residential users and other	:::	:::	:::			:::	
irrigation organizationsorganizations Water to farm and residential							
Water to other irrigation				•••			
organizationsacre-feet To other irrigation organizations onlyorganizations							
No water conveyedorganizations		:::	:::				
WATER FROM OTHER SOURCES Organizations reporting no water from other sources used on the land served by the			•••				•••
organizationorganizations. acres served acres irrigated water delivered to farms (acre-feet) acre-feet per acre	203 297,471 185,539 567,804 3.1	(D) (D) (D) (D)	(D) (D) (D) (D) (D)	:::	:::	:::	165 280,164 175,837 545,116
organizations reporting water from other sources used on land served by the organizationorganizations							3.1
acres served water delivered to farms (acre-feet) water Melivered to farms (acre-feet) Acre-feet per acre NEW CAPITAL INVESTMENT, 1950-1959					:::	:::	
Expenditures for additional new works and equipment for irrigation and drainage, January 1, 1990-leeember 31, 1999	109 2,054,686	19 (D)	1 (p)	:::			89 1,873,452

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

				Louisiana, total			
Item (For definitions and explanations, see text)		Mut	tual		U. S. Bureau	of Reclamation	Commercial,
	All types	Unincorporated	Incorporated	District	Projects and storage systems operated by bureau	Operated by water users	Indian, State, city, and other
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959							
Total entering conveyance systemsorganizations acre-feet	203 617,850	37 (D)	(D)	:::	:::	:::	165 593,582
From another drainage basinorganizations							
From drainage basin		:::	• • • • • • • • • • • • • • • • • • • •				:::
From sources within basinorganizations	203 617,850	37 D)	1 'D)				16: 593,58
Surface waterorganizations	68	9		:::	:::	:::	5
Ground waterorganizations	516,572 148	(D) 30	 i	:::	:::	:::	510,39 11
acre-feet	101,279	D)	(D)	• • • • • • • • • • • • • • • • • • • •			83,19
From other organizations in the basin organizations receiving			:::	:::	:::	:::	::
Total leaving conveyance systemsorganizations acre-feet	203 617,850	37 (D)	1 (D)				16 593,58
Conveyance loss in basinorganizations	170	32	1				13'
acre-feet	50,046	(D)	D)				48,466
Conveyed to another drainage basinorganizations acre-feet					:::	:::	i ::
To dreinage basin number							
Delivered for use in the basinorganizations acre-feet	203 567.80 ₄	37 D)	1 (D)	:::	:::	:::	16 545,11
To farm irrigation water usersorganizations	203 567,804	37 (b)	ı D'				16 545,11
To domestic water usersorganizations				:::	:::	:::	
For other use					:::		::
l elivered to other urngation							
organizationsorganizations delivering							
SIZE OF ORGANIZATION, 1959	***						
Size of organization (number of farm irrigation water users):							
None	99	·id:	10.		:::		
4 to 9 water usersorganizations	78	(D)	D) (D) (D) (E)			:::	6
10 to 29 water usersorganizations 30 to 99 water usersorganizations	13	(b)	(D)		:::		1
100 to 299 water users	1 3	(D)	(D)	:::	:::	:::	
1,000 or more water usersorganizations					:::	:::	
Size of organization (acre-feet of water delivered directly to farms):							
Noneorganizations 1 to 299 acre-feetorganizations		'D)	, D)			:::	· ;
300 to 999 acre-feetorganizations 1,000 to 2,999 acre-feetorganizations	95 34	(D)	(D)				2
3,000 to 9,999 acre-feetorganizations	16	(D)	(D)		:::		1
10,000 to 29,999 acre-feetorganizations 30,000 to 99,999 acre-feetorganizations	6 4	(D) (D) (D)	(D) (D) (D) (D) (D) (D)	:::	:::	:::	
100,000 or more acre-feetorganizations	1	(E)	(D)				
Size of organization (acre-feet of water conveyed):					İ		
Noneorganizations 1 to 299 acre-feetorganizations	43	(D)	(i)			:::	
300 to 999 acre-feetorganizations 1,000 to 2,999 acre-feetorganizations	98	(D)	(d)				7 3 1
3.000 to 9.999 acre-feetorganizations	35 16	(D)	(2)				í
10,000 to 29,999 acre-feetorganizations 30,000 to 99,999 acre-feetorganizations	6	(D)	(D) (D) (D) (D)	:::	:::	:::	
100,000 or more acre-feetorganizations	1	(D)	, D)				:

D Data not shown to avoid disclosure of information for individual organizations.

State Table 5.-NUMBER OF IRRIGATION ORGANIZATIONS, TYPE OF SERVICE, NEW CAPITAL INVESTMENT, AND WATER CONVEYED, BY SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUS OF 1959

Item		Louisiana, total	
(For definitions and explanations, see text)	Size of org	anization, by total water conveyed	ı
	0-999 acre-feet	1,000-9,999 acre-feet	10,000 or more acre-feet
umber of organizations	141	51	
ll water directly from surface and ground sourcesorganizations	141	51	
Total water cooveyed	65,331 60,519	143,328 133,765	409,1
To farm and residential users onlyorganizations	141	51	373,5
To farm and residential users and other	60,519	133,765	373,
irrigation organizationsorganizations Water to farm and residential usersacre-feet	***		
Water to other irrigation organizationsacre-feet To other irrigation organizations onlyorganizations			
acre-feet	:::		
art of water from other organizationsorganizations Total water conveyedacre-feet			
From surface and ground water sourcesacre-feet	:::	***	
From other irrigation organizationsacre-feet Water deliveredacre-feet		111	
To farm and residential users onlyorganizations			
To farm and residential users and other	***		
irrigation organizationsorganizations Water to farm and residential usersacre-feet			
Water to other irrigation organizationsacre-feet			
To other irrigation organizations onlyorganizations acre-feet	***	:::	
ll of water from other organizationsorganizations			
Total water conveyed	***		
Water deliveredacre-feet. To farm and residential users onlyorganizations acre-feet			
To farm and residential users and other	•••	***	
irrigation organizationsorganizations Water to farm and residential usersacrs-feet		***	
Water to other irrigation organizationsacre-feet To other irrigation organizations onlyorganizations			
acre-feet		:::	
o water conveyedorganizations			
WATER FROM OTHER SOURCES			
rganizations reporting NO water from other sources used on land served by the organizationorganizations	141	51	
acres served	50,117 29,943	137,590	109,
acres irrigated rganizations reporting water from other sources used	29,943	51,544	104,
on land served by the organizationorganizations			
acres served		***	
NEW CAPITAL INVESTMENT, 1950-1959			
xpenditures for additional new works and equipment for irrigation and drainage,			
January 1, 1950-December 31, 1959organizations	77	29	
dollars	493,712	768,974	792,
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959 otal entering conveyance systems in basinorganizations	141	51	
acre-feet	65,331	143,328	409,
From another drainage basinorganizations			
From Drainage Basin numberD. B. No From natural sources within basin	141	51	
acre-feet	65,331	143,328	409
Surface waterorganizations acre-feet	9,680	34 97,701	409
Ground waterorganizations	124 55,651	45,627	
From other organizations in the basinorganizations receiving			
acre-feet	141	51	
otal leaving conveyance systemsorganizations acre-feet	65,331	143,328	409
Conveyance loss in basin	121 4.812	9,563	35.
Command to continue during the continue to the			
To draw implication when you come in the basin. organizations acre-feet To drainage basin number	141	51	
Delivered for use in the basinorganizations	141 60,519	133,765	373.
	141	51	
To residential water usersorganizations	60,519	133,765	373
For other useorganizations			
acre-feet			
Delivered to other irrigation organizations			
AVERAGE DELIVERY OF IRRIGATION WATER PER ACRE, 1959			
er acre irrigated, as reported by irrigation organization:	2.0	2.6	
All organizations	141	51	

MONTANA

(201)

IRRIGATION OF AGRICULTURAL LANDS

State Table 1.-NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS.

=	T I			Columbia	Of year ob are Case	ke River exclud	ing Volcino Ping	(T.C)	
		i		COLUMBIA	siver above ona	ke kiver exclud		r (1-0)	
								Tathead River	
	Item (For definitions and explanations, see text)	The State	Total	Total	Clark Fork direct below Missoula	Clark Fork direct above Misscula	Total	Flathead River direct below Polson (8c)	Upper Flat- bead River direct above Polson and Little Bitter- root River (8d, e)
1	Total acres irrigated in Census year1959	1,874,520	368,000	364,000	14,000	93,000	117,000	87,000	30,000
2	1949	1,808,576	351,042	347,165	16,796	84,647	104,701	87,862	16,839
4	Irrigetion organizationsorganizations 1959 1949	1,050 1,234	299 397	293 386	18 19	59 64	49 56	29 31	20 27
5	Service area, 1959; Farm area reported served by organizationsacres 1959	1,642,968	316,089	313,457	18,913	58,693	119,940	105,390	14,550
6	Farm area reported irrigated by organizationsacres 1959	1,347,197	266,578	264,588	17,685	35,392	110,451	97,265	13,186
7	Water users served, totalwater users 1959	17,181	6,658	6,597	1,136	347	3,291	2,878	413
8	Farm irrigation water userswater users 1959	14,773	5,230	5,169	1,024	281	2,043	1,640	403
9	Residential water userswater users 1959	2,395	1,426	1,426	110	66	1,248	1,238	10
10	Other water userswater users 1959	13	2	2	2				
	LAND IRRIGATED BY SOURCE OF WATER, 1959								
11	Ground water sourcesacres	34,015	14,000	14,000	1,000	3,000	6,000	1,000	5,000
12	Surface water sourcesacres	1,840,505	354,000	350,000	13,000	90,000	111,000	86,000	25,000
13 14	WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959 Total entering conveyance systems in basin	1,044 5,973,077	298 1,015,513	292 1,010,526	18 53,434	59 140,841	49 348,545	29 319,338	20 29,207
15 16	From another drainage basinorganizations acre-feet	2,786	:::	:::	:::	:.:	:::	:::	:::
17	From drainage basin numberD. B. No								
18 19	From natural sources within basinorganizations acre-feet	1,017 5,970,291	298 1,015,513	1,010,526	18 53,434	59 140,841	49 348,545	29 319,338	20 29,207
20 21	Surface waterorganizations acre-feet	1,005 5,922,639	292 999,858	286 994,871	18 53,434	58 140,591	48 348,471	319,338	19 29,133
22	Ground waterorganizations acre-feet	47,652	15,655	15,655	:::	250	74	:::	2 74
24 25	From other organizations in the basinorganizations receiving	261,813	5,225	5,225	:::	2 4,475			
26 27	acre-feet Total leaving conveyance systemsorganizations acre-feet	1,044 5,973,077	298 1,015,513	292 1,010,526	18 53,434	59 140,841	49 348,545	29 319,338	20 29,207
28 29	Conveyance loss in basinorganizations acre-feet	979 1,484,101	263 293,792	258 293,265	17 9,431	58 21,109	35 154,626	22 145,297	13 9,329
30 31	Conveyed to another drainage basinorganizations acrc-feet	100,000	:::	:::	:::	:::		:::	:::
32	To drainage basin number								
33 34	Delivered for use in the basinorganizations acre-feet	1,041 4,388,976	298 721,721	292 717,261	18 44,003	59 119,732	49 193,919	29 174,041	20 19,878
35 36	To farm irrigation water usersorganizations acre-feet	1,041 4,333,721	298 710,839	292 706,379	18 43,903	119,600	49 183,275	29 163,919	20 19,356
37 38	To residential water usersorganizations acre-feet	30 42,141	10.880	10,880	1 98	1 132	10,644	3 10,122	3 522
39 40	For other useorganizations acre-feet	13,114	1 2	1 2	1 2	:::	:::	:::	:::
41 42	Velivered to other urigation organizations	26 261,813	3 5,225	3 5,225		2 4,475	:::	:::	:::
43	Average delivery of irrigation water per acre irrigated as reported by organizationsacre-feet	3.2	2.8	2.8	2.5	4.5	1.7	1.7	1.5
44	NEW CAPITAL INVESTMENT, 1950-1959 Expenditures for additional new works and equipment for irrigation and drainage, Jan. 1, 1950-Bec. 31, 1959	514 24,240,701	133 2,216,496	131 2,208,954	9 71,660	33 62,502	15 1,503,821	1,173,200	6 330,621

Water was transferred to the basin and released to natural stream channels in excess of the quantity of surface water withdrawn by irrigation organizations. The net effect was to increase the available surface water supply in the basin or State.

BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950

River e:	ia River abov xcluding Yaki -C) Continue	ma River		Missouri	River below	Three Forks (excluding Pl	atte and Yello (VI-C and)	owstone Rive	rs), and Hud	son Bay (Red	River of the	North)	
	-Continued		Mississippi			Missouri Riv	er direct				Milk	River		
Bitter- root River	Blackfoot River	Kootenai River	River, Total and Hudson Bay	Total	Total.	Below Fort Peck Dam	Fort Peck to Holter Dam	Holter Dam to Three Forks	Belle Fourche River	Total	Milk River direct below Havre	Milk River direct above Havre	Upper Beaver Creek	
(8r)	(8g)	(9)				(la)	(1b)	(1c)	(5b)		(6a)	(6b)	(6c)	
108,000 109,260	32,000 31,761	4,000 3,877	1,507,000 1,457,534	539,000 506,661	116,000 99,062	26,000 19,130	28,000 23,293	62,000 56,639		132,000 112,162	124,000 105,028	8,000 6,323	811	1 2
156 233	11 14	6	751 837	153 172	53	3 4	8 7	42 58		27 22	23	4		3 4
2,55	1-7		1				· ·	-				,	-	4
106,554	9,357	2,632	1,326,879	517,598	87,485	13,501	16,806	57,178		146,848	143,373	3,475		5
92,448	8,612	1,990	1,080,619	368,733	56,534	10,515	5,830	40,189		107,080	105,375	1,705		6
1,782	41	61	10,523	3,194	527	116	39	372		866	847	19		7
1,780	41	61	9,543	3,151	522	116	39	367		865	846	19		8
2		•••	969 11	36 7	1 4			1 4			1	***	***	10
•••		•••	11	, ,	4		•••	4		1	1	•••		10
2,000	2,000		20,000	6,000	4,000			4,000		1,000	1,000			11
106,000	30,000	4,000	1,487,000	533,000	112,000	26,000	28,000	58,000		131,000	123,000	8,000		12
155 440,698	11 27,008	6 4,987	747 4,957,564	153 1,092,361	53 234,912	3 19,575	8 30,381	42 184,956		27 287,464	23 277,439	10,025		13 14
			3 2,786		:::	:::				1 219,366	:::	1 219,366		15 16
			2,700							VII		VII		17
155 440,698	27,008	4,987	719 4,954,778	150 1,092,361	52 234,912	3 19,575	8 30,381	41 184,956		27 68,098	23 277,439	1-209,341		18 19
151 425,367	27,008	6 4,987	713 4,922,781	148 1,078,563	50 221,114	3 19,575	8 30,381	39 171,158		27 68,098	23 277,439	1-209,341		20 21
5 15,331	:::		11 31,997	13,798	3 13,798			3 13,798	:::	·				22
1			38					,						
750	:::	:::	256,588	62,568	32,018	:::	:::	32,018	:::	:::	:::	:::		24 25
155 440,698	27,008	4,987	747 4,957,564	1,092,361	234,912	19,575	30,381	184,956	:::	27 287,464	277,439	10,025	:::	26 27
138 103,929	4,170	5 527	1,190,309	143 286,715	44,874	7,184	4,917	32,773		26 80,953	78,313	2,640	:::	28 29
:::	:::	:::	100,000	:::	:::	:::	:::	:::	:::	:::		:::	:::	30 31
														32
155 336,769	11 22,838	6 4,460	743 3,667,255	151 805,646	52 190,038	3 12,391	8 25,464	41 152,183		26 206,511	23 199,126	7,385	:::	33 34
155 336,763	11 22,838	6 4,460	743 3,622,882	151 787,010	52 183,424	3 12,391	8 25,464	41 145,569		26 196,781	23 189,396	7,385	:::	35 36
1 6		:::	21 31,261	6,534	6,297	:::		6,297	:::	:::	:::	:::	:::	37 38
	:::	:::	13,112	12,102	3 317	:::	:::	3 317	:::	9,730	9,730	:::	:::	39 40
1 750	:::	:::	23 256,588	5 62,568	2 32,018	:::	:::	2 32,018	:::		:::	:::		41 42
3.6	2.7	2.2	3.4	2.1	3.2	1.2	4.4	3.7		1.8	1.8	4.3		43
71 562,341	3 8,630	2 7,542	381 22,024,205	78 19,646,843	40 17,973,149	3 355 , 749	5 13,700	32 17,603,700		10 1,312,899	8 1,306,399	6,500		44 45

IRRIGATION OF AGRICULTURAL LANDS

State Table 1.-NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS.

٦			Missouri	River below T Hudson Bay (R	hree Forks (e) ed River of th	cluding Plate ne North) (VI	te and Yellow -C and VII)-	stone Rivers) Continued	, and	
		Mus	selshell Rive	r)	Marias River			
	Itum (For definitions and explanations, see text)	Total	Mussel- shell River direct	Box Elder and Flatwillow Creeks	Judith River and Smith River	Total	Marias River direct	Teton River	Sun River	Hudson Bay (Red River of the North)
			(7a)	(7b)	(8, 11)		(9a)	(9b)	(10)	(VII)
1 2	Total acres irrigated in Census year	80,000 61,953	62,000 48,562	18,000 13,391	39,000 33,412	80,000 94,007	39,000 62,748	41,000 31,259	91,000 106,065	1,000 NA
3 4	Irrigation organizationsorganizations 1959	26 37	19 24	7 14	13 16	18 15	11 8	7 8	17 14	1 NA
5	Service area, 1959: Farm area reported served by organizationsacres 1959	26,450	16,880	9,570	19,730	122,289	84,452	37,837	114,796	
6	Farm area reported irrigated by organizationsacres 1959	24,745	15,705	9,040	9,059	64,307	37,470	26,837	107,008	
7	Water users served, totalwater users 1959	188	152	36	84	736	601	1.35	793	
8	Farm irrigation water userswater users 1959	178	142	36	84	734	599	135	768	[
9	Residential water userswater users 1959	10	10						25	
10	Other water userswater users 1959					2	2			
	LAND IRRIGATED BY SOURCE OF WATER, 1959									
11	Ground water sourcesacres	1,000	1,000			40.000	20.000	43.000	01 000	3 000
12	Surface water sourcesacres	79,000	61,000	18,000	39,000	80,000	39,000	41,000	91,000	1,000
13 14	WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959 Total entering conveyance systems in basin	26 76,399	19 55,805	7 20,594	13 18,352	18 . 195,977	11 99,410	7 98,967	17 (D)	1 (D)
15 16	From another drainage basinorganizations acre-feet						1 2,400			:
17	From drainage basin numberD. B. No						VI-C-9b			
18 19	From natural sources within basinorganizations acre-feet	26 76,399	19 55,805	7 20,594	12 18,352	17 195,977	97,010	98,967	17 (D)	(D)
20 21	Surface waterorganizations acre-feet	26 76,399	19 55,805	7 20,594	12 18,352	17 195,977	97,010	98,967	17 (D)	(D)
22 23	Ground waterorganizations acre-feet	:::		:::	:::	:::	:::		***	:::
24 25	From other organizations in the basinotganizations receiving acre-feet				2 2,050	28,500	:::	28,500		:::
26 27	Total leaving conveyance systemsorganizations acre-feet	26 76,399	19 55,805	7 20,594	13 18,352	18 195,977	11 99,410	7 98 , 967	17 (D)	(D)
28 29	Conveyance loss in basinorganizations acre-feet	25 22,422	18 14,885	7 7,537	13 2,931	18 48,949	11 18,481	7 30,468	17 86,586	
30 31	Conveyed to another drainage basinorganizations acre-feet				:::			2,400 N. Dak.		(D) Montana
32	To drainage basin numberD. B. No							VI-C-9a		VI-C-6b
33 34 35	Delivered for use in the basinorganizations acre-feet	26 53,977	40,920 19	13,057	13 15,421 13	18 147,028	80,929	66,099 7	17 (D)	:::
36 37	To farm irrigation water usersorganizations acre-feet To residential water usersorganizations	53,895	40,838	13,057	15,421	144,973	78,874	66,099	(D)	:::
38	acre-feet	82	82	:::	:::			:::	155	:::
39 40	For other useorganizations acre-feet		:::			2,055	2,055	:::		
41 42	Velivered to other impation organizations		:::	:::	2,050	28,500	:::	28,500	:::	:::
43	Average delivery of irrigation water per acre irrigated as reported by organizationsacre-feet	2.2	2.6	1.4	1.7	2.3	2.1	2.5	1.8	
44	NEW CAPITAL INVESTMENT, 1950-1959 Expenditures for additional new works and equipment for irrigation and drainage, Jan. 1, 1950-pec. 31, 1959	3 18,050	8 18,050	:::	13,080	9 101,560	5 22,060	4 79,500	8 22 8, 105	:::

^{13,114} acre-feet from D. B. No. VI-F-4a, 35,040 acre-feet from D. B. No. VI-F-6. 72,290 acre-feet from D. B. No. VI-F-1c. 76,038 acre-feet from D. B. No. VI-F-1c. 76,038 acre-feet from D. B. No. VI-F-1c. 76,038 acre-feet for D. B. No. VI-F-1D. VI-F-1D. 75,052 acre-feet for D. B. No. VI-F-1D.

BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950-Continued

				Yello	owstone River	excluding Big	Horn River (VI	-F)					
		Yello	wstone River d	Irect					Clarks Fork		Stillwat	er River	1
Total	Total	Below Miles City	Miles City to Billings	Billings to Livingston	Above Livingston	Powder River	Tongue River	Total	Clarks Fork direct	Red Lodge Creek	Total	Stillwater River direct	
ļi		(la)	(1b)	(le)	(ld)	(2a)	(3a)		(4a)	(4b)		/5a)	-
438,000 423,505	281,000 265,737	69,000 66,866	97,000 85,626	85,000 90,141	30,000 23,104	8,000 7,031	17,000 12,725	78,000 82,538	40,000 47,632	38,000 34,906	21,000 19,780	10,000 9,297	1 2
283 308	119 110	8	18 17	66 64	27 23		4 5	79 86	38 41	41 46	49 51	21 22	3 4
432,147	286,721	77,269	92,609	90,763	26,080		1,988	86,232	54,787	31,445	23,910	9,543	
388,784	255,799	72,281	76,242	81,751	25,525		1,953	83,225	53,957	29,268	22,959	9,193	6
4,877	3,606	711	1,494	1,151	250		34	803	557	246	296	141	7
3,958	2,808	707	856	997	248		22	733	491	242	257	102	'
915	794	3	638	153 1	2		12	70	66	4	39	39	10
													1
4.000	1,000		1,000	***			2,000	1,000	1,000				11
434,000	280,000	69,000	96,000	85,000	30,000	8,000	15,000	77,000	39,000	38,000	21,000	10,000	12
281 2,021,143	119 1,448,737	8 391,008	18 314,744	66 637,732	27 180,845	:::	70,136	78 372,303	38 258,085	40 114,218	49 92,091	21 40,479	13
2,570	5 102,699	64,545	75,592	4 38,154			280	8,928	8,928		:::	:::	15
		VI-F-3a	VI-F-le	(¹)			Wyoming VI-F-3a		(2)				17
270 2,018,573	108 1,346,038	8 326,463	16 239,152	58 599,578	26 180,845	:::	69,856	76 363,375	36 249,157	40 114,218	49 92,091	21 40,479	18
269 2,017,461	107 1,345,526	8 326,463	16 239,152	57 599,066	26 180,845	:::	69,856	76 362,775	36 249,157	40 113,618	49 92,091	21 40,479	
1,112	1 512	:::	:::	1 512	:::	:::	:::	2 600		2 600	:::	:::	22
12 98,067	11 93,267		3 11,542	53,225	2 28,500			1 4,800	1 4,800				24
281 2,021,143	119 1,448,737	8 391,008	18 314,744	66 637,732	27 180,845		70 ,1 36	78 372,303	38 258,085	40 114,218	49 92,091	21 40,479	26
27 1 444,925	116 368,304	8 104,920	18 89,250	63 152,180	27 21,954		:::	74 44,574	35 30,853	39 13,721	48 9,435	20 3,089	
100,000	3 106,638	100,000		82,230			1 64,545	1 3,114	1 3,114				30
VI-F-la	·	VI-F-la		(3)			VI-F-la		VI-F-lc				32
281 1,476,218	119 973,795	186,088	18 225,494	66 403,322	27 158,891	:::	3 5,591	78 324,615	38 224,118	40 100,497	49 82,656	21 37,390	33
281 1,456,121	119 954,655	8 185,067	18 214,796	66 395,901	27 158,891	:::	3 5,507	78 324,462	38 223,968	40 100,494	49 81,936	21 36,670	35 36
14 19,087	12 18,130	1 21	10,698	6 7,411	:::	:::	1 84	2 153	1 150	1 3	1 720	1 720	37 38
1,010	1,010	1,000	:::	1 10	:::	:::		•••	:::	:::	:::	:::	35 40
98,067	93 , 267	:::	11,542	53 , 225	28,500		:::	4,800	4,800	:::	::: [:::	41 42
3.7	3.7	2.6	2.8	4.8	6.2		2.8	3.9	4.2	3.4	3.6	4.0	43
174 1,807,082	75 1,498,001	8 1,117,226	7 135,504	37 136,816	23 108,455		1 36,800	47 162,672	26 128,888	21 33,784	22 41,348	9 21,080	44

IRRIGATION OF AGRICULTURAL LANDS

State Table 1.-NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950-Continued

		Yellowstone River exclusing Horn River (VI-F)—Co			uding ontinued			Missour above T	i River Head hree Forks	waters (VI-H)
		Stillwater River—Continued Rosebud Creek							Jeffers	on River
	Item (For definitions and explanations, see text)						Big Horn River	1		
		Total	West Rosebud Creek	East Rosebud Creek and Butcher Creek (5c)	Boulder River	Shields Ri v er		Total	Total	Jefferson River direct
,	Total acres irrigated in Census year1959	11,000	(5b) 7,000	4,000	7,000	(7)	(VI-G) 55,000	475,000	379,000	(la)
2	1949	10,483	5,000	5,483	9,086	26,000 26,608	55,333	472,035	370,805	38,000 31,489
3	Irrigation organizationsorganizations 1959 1949	28 29	12 15	16 15	4 19	36 42	10 9	305 350	197 239	52 58
5	Service area, 1959: Farm area reported served by organizationsacres 1959	14,367	3,087	11,280	1,648	31,648	64,157	312,977	163,553	42,853
6	Farm area reported irrigated by organizationsacres 1959	13,766	3,087	10.679	1,417	23,431	57,969	265,133	141,484	34,641
7	Water users served, totalwater users 1959	155	44	111	19	119	594	1,858	1,005	31.5
8	Farm irrigation water userswater users 1959	155	44	111	19	119	594	1,840	1,001	315
9	Residential water userswater users 1959							18	4	
10	Other water userswater users 1959								•	
11	LAND IRRIGATED BY SOURCE OF WATER, 1959 Ground water sourcesscres							10,000	9,000	
12	Surface water sourcesacres	11,000	7,000	4,000	7,000	26,000	55,000	465,000	370,000	38,000
	WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959	,	,	'	,,,,,		,		, , , , , ,	
13 14	Total entering conveyance systems in basinorganizations acre-feet	28 51,612	12 9,520	16 42,092	4 47,633	36 99,580	10 277,233	303 1,566,827	196 885,030	51 250,366
15 16	From another drainage basinorganizations acre-feet	:::	:::	:::			1 216	:::	:::	1,500
17	From drainage basin numberD. B. No						Wyoming VI-G-1			VI-H-le
18 19	From natural sources within basinorganizations	28 51,612	12 9,520	16 42,092	47,633	36 99,580	9 277,017	291 1,566,827	184 885,030	43 248,866
20 21	Surface waterorganizations acre-feet	28 51,612	12 9,520	16 42,092	47,633	36 99,580	277,017	288 1,549,740	181 867,943	43 248,866
22 23	Ground waterorganizations							17,087	17,087	
24 25	From other organizations in the basinorganizations receiving	:::	:::	:::	:::	:::	3 6,250	16 89,703	15 86,895	10 28,990
26	Total leaving conveyance systemsorganizations	28	12	1.6	4	36	10	303	196	51
27	acre-feet	51,612	9,520	42,092	47,633	99,580	277,233	1,566,827	885,030	250,366
28 29	Conveyance loss in basinorganizations acre-feet	28 6,346	12 1,157	16 5,189	7,833	35 14,779	50,035	408,634	186 245,886	47 126,678
30 31	Conveyed to another drainage basinorganizations acre-feet		:::	:::	35,040	:::	:::	:::	:::	:::
32	To drainage basin numberD. B. No				VI-F-1c	•••				
33 34	Delivered for use in the basinorganizations acre-feet	28 45,266	12 8,363	16 36,903	4,760	36 84,801	10 227,198	301 1,158,193	193 639,144	48 123,688
35 36	To farm irrigation water usersorganizations acre-feet	28 45,266	12 8,363	16 36,903	4,760	36 84,801	10 227,198	301 1,152,553	193 639,124	48 123,688
37 38	To residential water usersorganizations acre-feet	:::		:::	:::	:::	:::	3 5,640	1 20	
39 40	For other useorganizations acre-feet	:::		:::		:::	:::			:::
41	Delivered to other urrigation								8	_
42	organizations	:::	:::	:::	:::	:::	6,250	89,703	86,895	28,990
43	Average delivery of irrigation water per acre irrigated as reported by organizationsacre-feet	3.3	2.7	3.5	3.4	3.6	4.2	4.3	4.5	3.6
44	NEW CAPITAL INVESTMENT, 1950-1959 Expenditures for edditional new works and equipment for irrigation and drainage, Jan. 1, 1950-Dec. 31, 1959	13 20,268	5 3,311	8 16,957	2,122	32 66 ,1 39	5 130,000	124 440,280	81 246,200	18 59,900

State Table 1.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Continued

		Missouri River Headwaters above Three Forks (VI-H)—Continued									
	Item (For definitions and explanations, see text)				Beaverhe	Madison	Gallatin				
		Boulder River	Big Hole River	Total	Beaverhead River direct	Ruby River	Red Rock Creek	River	River		
		(1b)	(1c)		(1d)	(le)	(lf)	(2)	(3)		
2	Total acres irrigated in Census year1959	5,000 19,915	156,000 132,046	180,000 187,355	113,000 107,607	41,000 29,997	26,000 49,751	26,000 34,249	70,000 66,981		
3	Irrigation organizationsorganizations 1959 1949	23 32	36 42	86 107	35 49	34 35	17 23	37 35	72 77		
5	Service area, 1959: Farm area reported served by organizationsacres 1959	13,227	34,315	73,158	33,208	32,650	7,300	40,848	108,576		
6	Farm area reported irrigated by organizationsacres 1959	6,902	29,737	70,204	31,929	31,310	6,965	29,689	93,960		
7	Water users served, totalwater users 1959	63	134	493	191	265	37	162	691		
8	Farm irrigation water userswater users 1959	63	130	493	191	265	37	149	690		
9	Residential water userswater users 1959		4					13	1		
10	Other water userswater users 1959										
	IAND IRRIGATED BY SOURCE OF WATER, 1959										
11	Ground water sourcesacresacresacres	5,000	1,000	8,000 172,000	7,000	1,000	26,000	26,000	1,000		
12	WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959	3,000	155,000	172,000	100,000	40,000	20,000	20,000	0,,000		
13 14	Total entering conveyance systems in basinorganizations acre-feet	23 28,666	36 209,801	86 397,697	35 175,614	34 183,885	17 38,198	37 209,007	71 472 , 790		
15 16	From another drainage basinorganizations				:::	:::					
17	From drainage basin number										
18 19	From natural sources within basinorganizations acre-feet	23 28,666	36 209,801	82 397,697	33 175,614	32 183,885	17 38,198	37 209,007	70 472,790		
20 21	Surface waterorganizations acre-feet	22 27,541	36 · 209,801	80 381,735	32 162,874	32 183,885	16 34,976	37 209,007	70 472,790		
22 23	Ground waterorganizations acre-feet	1,125		4 15,962	3 12,740	:::	3,222	:::	•••		
24 25	From other organizations in the basin	1 750	:::	4 57,155	2 755	2 56,400			1 2,808		
26 27	Total leaving conveyance systemsorganizations acre-feet	23 28,666	36 209,801	86 397,697	35 175,614	34 183,885	17 38,198	37 209,007	71 472,790		
28 29	Conveyance loss in basinorganizations acre-feet	23 5,786	35 43,163	81 70,259	32 13,788	32 50,845	17 5,626	36 60,229	71 102,519		
30 31	Conveyed to another drainage basinorganizations acre-feet			1,500	:::	1,500	:::	:::	•••		
32	To drainage basin numberD. B. No					VI-H-la					
33 34	Delivered for use in the basinorganizations acre-feet	23 22,880	36 166,638	86 325,938	35 161,826	34 131,540	17 32,572	37 148,778	71 370,271		
35 36	To farm irrigation water usersorganizations acre-feet	23 22,880	36 166,618	86 325,938	35 161,826	34 131,540	17 32,572	37 148,076	71 365,353		
37 38	To residential water usersorganizationa acre-feet		1 20		:::		:::	702	4,918		
39 40	For other useorganizations acre-feet				:::		:::				
41 42	Velivered to other impation organizations	1 750	:::	57,155	1 755	1 56,400	:::		2,808		
43	Average delivery of irrigation water per acre irrigated as reported by organizationsacre-feet	3.3	5.6	4.6	5.1	4.2	4.7	5.0	3.9		
44	NEW CAPITAL INVESTMENT, 1950-1959 Expenditures for additional new works and equipment for irrigation and drainage, Jan. 1, 1950-Bec. 31, 1959	12 6,560	15 84,340	36 95,400	16 73,425	13 14,575	7,400	20 133,775	23 60,305		

State Table 2.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950

rigation organizations, total umber	1,050 1,234 1,347,197 1,149,358 14,773 6,234,890 787 944 362,973	(1-c) 299 397 266,578 236,168 5,230 1,020,738	(VI-c) 153 172 368,733 324,62 3,151 1,154,929	(VI-F and VI-Q) 2 93 317 446,753 381,052 4,552 2,402,693	(VI-H) 30 36 265,13 207,31
umber organizations 1999 sa irrigated as reported by gganizations	1,234 1,347,197 1,149,358 14,773 6,234,890	397 266,578 236,168 5,230 1,020,738	368,733 324,622 3,151	2 93 317 446,753 381,052 4,552	30 35 265,13 207,51
rganizations acres 1999 1249 rm water users served directlywater users 1999 tal water conveyed	1,149,358 14,773 6,234,890 787 994	236,168 5,230 1,020,738	324,622 3,151	381,052 4,552	207,51
tal water conveyed	6,234,890 787 994	1,020,738			1.82
TYPE OF ORGANIZATION Unincorporated	787 994	252	1,154,929	2,402,693	1,04
tual: Unincorporatedorganizations 1959 1849. Farm area irrigated directlyacres 1959. Farm water users served directlywater users 1959 Total water conveyedacre-feet 1959	994				1,656,5
Unincorporated. organizations 1999. 1949 Farm area irrigated directlyacres 1959. Farm water users served directlywater users 1959. Total water conveyedacre-feet 1959	994			,	
directly		343 76,681	90 124 40,139	185 214 97,979	26 31 148,17
1 11 1000	3,227 1,778,459	1,114 342,648	304 118,666	797 447,390	1,0 869,7
1949	203 158	30 23	38 20	90 82	
Farm water users served directlywater users 1959	5.126	689	1,196	2,413	116,9 8 786,7
	2,092,343		9	1,240,177	700,7
Farm area irrigated directlyacres 1959	39 309,869	20 33,340	162,417	11 114,112	;
directlywater users 1959 Total water conveyedacre-feet 1959	3,662 1,085,931	1,359 147,520	1,227 372,073	1,076 566,338	:
ge systems operated by bureauorganizations 1959	4 3	 1	4 2		:
Farm area irrigated directlyacres 1959 Farm water users served directlywater users 1959	68		68		
	72,302	•••	72,302		
1949	15 16 238.790	3 NA 20,700	5 NA 138, 269	7 NA 79.821	
Farm water users served directlywater users 1959	2,034	336	1,031	667	
S. Bureau of Indian Affairsorganizations 1959	17	4	9	4	
Farm area irrigated directlyacres 1959	157,791	(D)	(D)	29,938	:
directly water users 1959 Total water conveyed acre-feet 1959	2,317 524,523	(D)	(D)	266 140,788	:
1949		 1	ïi	···	
Farm water users served directlywater users 1959	•••				
ateorganizations 1959	4 29	1 7	3 12		
Farm area irrigated directlyacres 1959 Farm water users served	18,488	(D)	(D)		
directly. water users 1959 Total water conveyedacre-feet 1959	81,330	(D)	(D)	:::	:
1949	···i			:::	
Farm water users served directlywater users 1959					
	Incorporated. organizations 1999. Farm area irrigated directly. 1999. Farm water users served directly. organizations 1999. Strict. organizations 1999. Strict. organizations 1999. Farm area frigated directly. acres 1999. Farm area frigated directly. acres 1999. Total water conveyed. acre-feet 1999. S. Bureau of Reclamation; projects and storage systems operated by bureau. organizations 1999. Farm area frigated directly. acres 1999. Farm area irrigated directly acres 1999. Farm area irrigated directly acres 1999. S. Bureau of Reclamation; projects and storage systems operated by bureau. organizations 1999. Farm area irrigated directly. acres 1999. S. Bureau of Reclamation; period water users 1999. Farm water users served water users 1999. Farm area irrigated directly. acres 1999. Farm water users served water users 1999. Farm water users served water users 1999. Farm water users served water users 1999. Farm water users served water users 1999. Farm area irrigated directly. acres 1999. Farm area irrigated directly. acres 1999. Farm water users served directly. acres 1999. Farm water users served water users 1999. Farm water users served water users 1999. Farm water users served directly. acres 1999. Farm water users served directly. acres 1999. Farm water users served directly. acres 1999. Farm water users served directly. acres 1999. Farm water users served directly. acres 1999. Farm water users served directly. acres 1999. Farm water users served directly. acres 1999. Farm water users served directly. acres 1999. Farm water users served directly. acres 1999. Farm water users served directly. acres 1999. Farm water users served directly. acres 1999. Farm water users served directly. acres 1999. Farm water users served directly. acres 1999. Farm water users served directly. acres 1999. Farm water users served directly. acres 1999. Farm water users served directly. acres 1999. Farm water users served directly. acres 1999. Farm water users served directly. acres 1999. Fa	Incorporated	Incorporated.	Incorporated.	Incorporated Organizations 1999 1949

D Data not shown to avoid disclosure of information for individual organizations. NA Not available.

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State Table 2.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Continued

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	Item (For definitions and explanations, see text)	Montana, total	Columbia River above Snake River excluding Yakima River (I-C)	Missouri River below Three Forks, Montane, excluding Platte and Yellowstone River (VI-C)	Yellowstone River and Big Horn River (VI-F and VI-G)	Missouri River Headwaters above Three Forks, Montans (VI-H)
ł			(1-0)	(41-0)	(VI-F and VI-G)	(*1-1/)
	TYPE OF SERVICE, 1959					
1 2 3 4	All water directly from surface and ground water sources	1,002 5,818,054 4,321,516	295 894,496 628,945	1,088,577 806,720	275 2,282,289 1,710,242	287 1,552,692 1,175,609
5	users onlyorganizations	979	294	140	266	279
6	acre-feet To farm and residential users and other	3,640,880	624,575	712,324	1,240,246	1,063,735
7	irrigation organizationsorganizations Water to farm and residential	23	1	5	9	8
8	usersacre-feet Water to other irrigation	427,198	3,620	31,828	365,679	26,071
9	organizations	253,438	750	62,568	104,317	85,803
10	onlyorganizations acre-feet		:::	:::	:::	:::
11	Part of water from other					
12	organizations	19 182,575	3 126,242	5,264	6 31,262	6 19,807
13	From surface and ground water sourcesacre-feet	154,807	121,017	3,784	15,871	14,135
14	From other irrigation organizationsacre-feet	27,768	5,225	1,480	15,391	5,672
15 16	Water deliveredacre-feet To farm and residential	142,374	97,999	4,875	24,053	15,447
17	users onlyorganizations acre-feet	16 109,052	71,877	4,875	6 24,053	5 8,247
18	To farm and residential users and other irrigation organizationsorganizations	3	2			1
19	Water to farm and residential usersacre-feet	24,947	21,647			3,300
20	Water to other irrigation organizationsacre-feet	8,375	4,475			3,900
21	To other irrigation organizations only organizations acre-feet					
		***				***
23	All of water from other organizationsorganizations	23		3	10	10
24 25	Total water conveyedacre-feet Water deliveredacre-feet	234,261 173,785	:::	61,088 44,517	89,142 72,428	84,031 56,840
26	To farm and residential users onlyorganizations	23 173,785		3	10	10
27 28	acre-feet To farm and residential users and other			44,517	72,428	56,840
29	irrigation organizationsorganizations Water to farm residential usersacre-feet					
30	Water to other irrigation organizationsacre-feet					
31	To other irrigation organizations onlyorganizations					
32	acre-feet					
33	No water conveyedorganizations	6	1	1	2	2
	WATER FROM OTHER SOURCES					
34	Organizations reporting NO water from other sources used on land served					
35	by the organizationorganizations acrea served	808 1,407,584	223 274,308	128 461,544	268 497,140	189 174,592
36 37	acres irrigated Water delivered to farmsacre-feet	1,159,439 3,537,172	233,001 597,029	329,029 680,382	449,095 1,616,026	148,314 643,735
38 39	acre-feet per acre Organizations reporting water from other	3.1	2,6	2.1	3.6	4.3
,,,	sources used on land served by the organizations	234	75	23	23	113
40 41	acres acres	265,041 215,633	41,781 33,577	56,054 39,704	28,821 25,533	138,385 116,819
42 43	Water delivered to farmsacre-feet acre-feet per acre	867,527 4.0	113,810	106,628	138,271	508,818
	dote-rear per determ	1	1	1	1	1

State Table 2.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Continued

=	7.0					
	Item (For definitions and explanations, see text)	Montans, total	Columbia River above Snake River excluding Yakims River (I-C)	Missouri River below Three Forks, Montane, excluding Platte and Yellowstone River (VI-c)	Yellowstone River and Big Horn River (VI-F and VI-G)	Missouri River Headwaters above Three Forks, Montana (VI-H)
				(12.0)	(111 414 11-0)	(11-11)
1 2 3 3 4 4 5 6 6 7 7 8 8 9 10 11 12 13 14 15 16 16 17 18 18 19 19 19 19 19 19 19 19 19 19 19 19 19	WATER DELIVERED PER AGRE Organizations reporting Bo water from other sources used on same land: 0.1 to 0.9 acre-feet per acreorganizations. 1.0 to 1.9 acre-feet per acreorganizations. 2.0 to 2.9 acre-feet per acreorganizations. 3.0 to 3.9 acre-feet per acreorganizations. 4.0 to 4.9 acre-feet per acreorganizations. 5.0 to 5.9 acre-feet per acreorganizations. 6.0 to 6.9 acre-feet per acreorganizations. 6.0 to 6.9 acre-feet per acreorganizations. 7.0 to 7.9 acre-feet per acreorganizations. 8.0 to 9.9 acre-feet per acreorganizations. 10.0 or more acre-feet per acreorganizations.	33 45,249 1188 323,156 1800 351,052 167,1661 96,099 96,099 45 56,390 25 32 18,899 25 31,538 24	3,133 366 108,799 5,338 31,436 31,436 31,436 4,9 7,129 4,637 2,300 3,300 3,300 3,400 7,129	15 27,244 48 175,740 3,4 75,763 11,759 2,4,28 3,3,005 1,1,568 1,1,568 1,1,568 1,2,600 1,2,600	9,210 322 26,587 70 20,311 66,5 88,939 37,887 16,87 16,97 14,841 10 7,014 10 23,409	5,762 22 22,23,030 2,640 23,85 1,766 33 31,007 1,7 1,4 5,660 1,5 1,5 1,5 1,6 1,6 1,6 1,6 1,6 1,6 1,6 1,6 1,6 1,6
	SIZE OF ORGANIZATION					
21 22 23 24	Size of organization (number of farm irrigation where users served directly): income. 1 to 3. organizations. water users. 4 to 9 organizations.	9 519 1,216 303	1 161 370 86	2 73 173 38	2 101 242 112	4 184 431 67
25 26 27 28 29 30 31 32 33 34	10 to 29. water users.	1,664 132 2,065 62 3,224 19 3,287 5 2,351 1,125	483 28 417 15 721 5 944 2 1,070 1,125	203 166 273 18 939 4 620 2 943	616 46 742 21 1,150 10 1,723 1 338	362 42 633 8 414
-	Size of organization (acre-feet of water delivered directly to farms):	1,227	1,260			
36 37 38 39 40 41 42 43 44 45 46 47 48 49	None	9 139 20,753 228 169,190 317 558,692 1,082,748 1,280,732 4472,779	1 10,135 9 57,824 32 124,3448 194,368 5 76,682 4 237,482	2 3,641 41 23,322 46 83,073 80,739 19 345,917 3 140,259 110,007	2 3,424 46,152 87 158,812 408,773 376,464 397,899 33 362,772	4 20 3,553 7,71 41,892 102 182,456 398,888 29 481,669 1 1 44,165
51 52 53 54 55 56 57 58 59 60 61 62 63 64 65	Size of organization (scre-feet of water conveyed): None	16,901 16,901 16,307 16,307 572,302 224 1,231,228 1,628,185 31 1,630,955 1,025,214	1 6,37 55,59 55,59 114,58 240,913 101,888 4 221,390 1 208,072	1 21 3,167 33 22,968 26,122 26,125 27,199 373,999 401,843 1 177,245	2 177 2,990 47,535 47,535 147,677 422,848 584,120 587,348 4 4	2 15 2,617 39,211 19,883 462,212 568,153 8 390,374

State Table 3.—LAND IRRIGATED BY SOURCE OF WATER, BY DRAINAGE BASINS: CENSUS OF 1959

	Item (For definitions and explanations, see text)	Montana, total	Columbia River above Snake River excluding Yakima River	Missouri River below Three Forks, Westman, excluding Platte and Fellow- stone River	Yell witine and Bir Horn Rivers	Missouri River Headwaters above Three Forks, Muntana	Hudson Bay (Red River of the North)
1	Total acres irrigatedfarms reporting	11,935	3,369	3,313	3,782	1,456	15
2	acres	1,874,520	367,545	538,057	493,135	474,972	811
3	Acres irrigated by sprinklersfarms reporting	1,376	852	243	110	165	6
4	acres	67,745	38,232	13,881	3,268	12,131	233
5	Sprinklers onlyfarms reporting	741	525	136	45	32	3
6	acres	35,916	23,318	8,424	1,311	2,757	106
	LAND IRRIGATED, BY SOURCE OF WATER TO INDIVIDUAL FARMS, 1959						
7	Ground water sources on farmfarms reporting	537	276	111	80	69	1
8	acres	30,791	11,349	6,505	3,972	8,885	80
9	Ground water sources on farm only.farms reporting	300	171	52	45	31	1
10	acres	14,148	5,704	3,352	2,859	2,153	80
11	Surface sources on farmfarms reporting	4,771	1,515	1,441	929	872	14
12	scres	909,901	184,716	242,994	124,403	357,057	731
13	Surface sources on farm onlyfarms reporting	4,055	1,261	1,251	796	733	14
14	acres	795,571	155,893	212,076	109,052	317,819	731
15	Irrigation organization sourcesfarms reporting	7,452	1,883	1,973	2,926	670	
16	acres	933,828	171,480	288,558	364,760	109,030	
17	Irrigstion organization sources only	6,753	1,631	1.794	2,790	538	
18	acres	836,876	147,217	256,005	344,612	89,042	
19	Both farm ground water sources	0,00,070		250,005	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	07,042	
-/	and surface sources	126	53	36	15	22	
20	acres	38,567	9,608	5,700	1,508	21,751	
21	Both irrigation organization and farm ground water or farm surface sourcesfarms reporting	701	253	180	136	132	
22	acres	189,358	49,123	60.924	35,104	44,207	
	dervort	10.,550		55,724			

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950

	Montana, total									
Item		Mut	ual		U. S. Bureau					
(For definitions and explanations, see text)	All types	Unincorporated	Incorporated	District	Projects and storage systems operated by bureau	Operated by water users	Commercial, Indian, State, city, and other			
1rrigation organizationsorganizations 1959	1,050 1,234	787 994	203 158	35 39	4 3	15 16	21			
Service area, 1959: Area served, as reported by organizations	1,642,968	449,079	626,781	357,906	11,623	278,058	197,579			
by organizations	1,347,197 17,181 14,773 2,395 13	362,973 3,335 3,227 107	491,189 6,033 5,126 898 9	309,869 3,829 3,662 165 2	6,887 69 68 	238,790 2,067 2,034 31 2	176,279 3,915 2,690 1,225			
TYPE OF SERVICE, 1959 All water directly from surface and ground water sources	1,002 5,818,054 4,321,516	771 1,733,082 1,401,863	176 2,466,905 1,885,675	970,500 588,212	2 41,714 38,091	13 749,042 409,344	21 605,853 407,675 21			
To farm and residential users and other irrigation organizationsorganizations	3,640,880	1,383,288	1,281,436	560,978	7,503	409,344	407,675			
Water to other irrigation	427,198	8,830	395,634	22,734						
organizations	253,438	9,745	208,605	4,500	30,588					
Part of water from other			:::			:::	:::			
organizations. organizations. Total water conveyed	19 182,575	23 , 746	43,398	115,431	:::	98,895				
sourcesacre-feet. From other irrigation organizationsacre-feet. Water deliveredacre-feet To farm and residential uners onlyorganizations.	154,807 27,768 142,374	12,844 10,902 19,895	30,423 12,975 37,984	111,540 3,891 84,495		98,145 750 72,093				
To farm and residential users and other irrigation organizations	109,052	19,895	4,662	84,495	:::	72,093				
Water to farm and residential usersacre-feet Water to other irrigation	24,947		24,947							
organizations	8,375		8,375							
acre-feet All of water from other organizations organizations Total water conveyed	23 234,261 173,785	21,631 17,600	15 182,042 137,693		1 30,588 18,492					
To farm and residential users onlyorganizations acre-feet	23 173 ,78 5	7 17,600	15 137,693		18,492	:::	:::			
To farm and residential users and other irrigation organizationsorganizations Water to farm and residential										
usersacre-feet Water to other irrigation organizationsacre-feet To other irrigation organizations	***	:::	:::	:::	:::		:::			
only							:::			
WATER FROM OTHER SOURCES Organizations reporting no water from other sources used on the land served by the					1					
organization	808 1,407,584 1,159,439 3,537,172 3.1	597 332,718 268,442 1,041,351 3.9	153 478,931 370,797 1,343,576 3.6	35 386,733 337,034 728,662 2.2	11,623 6,887 25,995 3.8	15 306,885 265,955 550,110 2.0	21 197,579 176,279 397,588 2.2			
sources used on land served by the organization. organizations ares served. acres irrigated. water delivered to farms (acre-feet) are acre-feet per acre.	234 265,041 215,633 867,527 4.0	189 116,711 94,761 386,684 4.1	45 148,330 120,872 480,843 4.0							
NEW CAPITAL INVESTMENT, 1950-1959 Expenditures for additional new works and equipment for irrigation and drainage, language 1, 1950-becember 31, 1959 organizations. By U.S. B. R. dollars. By water users organizations. dollars.	514 17,637,251 6,603,450	385 735 ,1 93	97 1,290,604	22 91,301 2,654,517	3 17,545,950	13 91,301 2,518,609	 7 1,923,136			

				Montana, total			
Item (For definitions and explanations, see text)		Mut	Isu		U. S. Bureau	of Reclamation	
(For definitions and explanations, see text)	All types	Unincorporated	Incorporated	District	Projects and storage systems operated by bureau	Operated by water users	Commercial, Indian, State, city, and other
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959							
Total entering conveyance systemsorganizations acre-feet	1,044 5,973,077	787 1,745,926	198 2,497,328	35 1,082,256	3 41,714	15 847,187	21 605,853
From another drainage basinorganizations	2,786	1 2,290	1 280	1 216		1 216	
From drainage basinD. B. No	***			• • •			
From sources within basinorganizations acre-feet	1,017 5,970,291	778 1,743,636	182 2,497,048	34 1,082,040	41,714	14 846,971	605,853
Surface waterorganizations acre-feet	1,005 5,922,639	768 1,717,784	181 2,475,848	1,081,440	41,714	14 846,971	605,853
Ground waterorganizations acre-feet	19 47,652	15 25,852	21,200	600			
From other organizations in the basin organizations receiving	41 261,813	16 32,533	22 195,017	2 3,675	1 30,588	1 750	
Total leaving conveyance systemsorganizations acre-feet	1,044 5,973,077	787 1,768,714	198 2,475,365	35 1,081,431	3 41,714	15 748,153	605,853
Conveyance loss in basinorganizations acre-feet	979 1,484,101	737 339 , 091	187 628,659	33 302,494	2 15,679	14 255,770	20 198,178
Conveyed to another drainage basinorganizations acre-feet	100,000			100,000			
To drainage basin number	***			• • • • • • • • • • • • • • • • • • • •			
Delivered for use in the basinorganizations acre-feet	1,041 4,388,976	786 1,429,623	197 1,846,706	35 678,937	26,035	15 492,167	21 407,675
To farm irrigation water usersorganizations acre-feet	1,041 4,333,721	786 1,427,345	197 1,823,459	35 659,334	25,995	480,782	21 397,588
To domestic water usersorganizations acre-feet For other useorganizations	30 42,141	2,268	20,913	8,873		655	10,087
acre-feet	13,114	10	2,334	10,730	40	10,730	
Delivered to other impation organizations delivering organizations ore-feet	26 261,813	9,745	20 216,980	4,500	1 30,588		
SIZE OF ORGANIZATION, 1959							
Size of organization (number of farm irrigation where users) organizations 1 to 3 water users organizations 4 to 9 water users organizations 4 to 9 water users organizations 30 to 99 water users organizations 100 to 29 water users organizations 100 to 299 water users organizations 300 to 999 water users organizations 1,000 or 909 water users organizations 1,000 or 900 water users organizations organizations organizations organizations	11 519 303 130 62 19 5	3 495 241 44 4 	6 21 54 76 38 7 1	 4 7 14 7 3	2 1 1	2 3 1 7 2	 3 4 2 5 5 5 1 1
Size of organization (acre-feet of water dolivered directly to farms); organizations	9 139 282 317 204 78 17	1 132 256 267 115 16	6 6 19 42 73 48 8	 4 2 13 8 6 6	2 1 1	 2 4 1 6 6 2	 1 3 6 2 5 3 1
Size of organization (scre-feet of water conveyed): organizations None. organizations 1 to 299 acre-feet. organizations 1,000 to 2,999 acre-feet. organizations 1,000 to 2,999 acre-feet. organizations 10,000 to 29,999 acre-feet. organizations 10,000 to 29,999 acre-feet. organizations 10,000 to 29,999 acre-feet. organizations 100,000 or more scre-feet. organizations	6 113 259 313 224 98 31 6	 108 241 268 142 28	5 4 12 39 69 53 20	 3 2 10 11 6 3	1 1 2	1 1 1 2 3 4 4	 1 3 4 3 5 3 2

		Columbi	a River above Sna	ake River excludi	ng Yakima River (I	-C)	
Item	***	Mut	ual		U. S. Bureau	of Reclamation	Commercial.
(For definitions and explanations, see text)	All types	Unincorporated	Incorporated	District	Projects and storage systems operated by bureau	Operated by water users	Indian, State, city, and other
Irrigation organizationsorganizations 1959	299 397	252 343	30 23	12 20	 i	3 NA	1
Service area, 1959: Area served, as reported by organizations	316,089	91,883	63,667	38,210		22,390	122,32
by organizationsacres	266,578	76,681	41,860	33,340		20,700	114,69
Nater users served, 1959, total. water users. Farm irrigation water users. water users. Residential water users. water users. Other water users. water users.	6,658 5,230 1,426 2	1,139 1,114 25	866 689 175 2	1,360 1,359 1	:::	337 336 1	3,29 2,06 1,22
All water directly from surface and ground water sources. Total water conveyed	295 894,496 628,945	252 342,648 272,618	27 122,561 104,018	11 48,841 37,408		9,574 8,617	380,44 214,90
onlyorganizations acre-feet To farm and residential users and other	294 624,575	251 268,248	104,018	37,408	:::	8,617	214,90
irrigation organizationsorganizations Water to farm and residential usersacre-feet	1 2 620	1					
Water to other irrigation organizationsacre-feet	3,620 750	3,620 750					
To other irrigation organizations only organizations acre-feet							::
Part of water from other							
organizationsorganizations. Total water conveyedacre-feet From surface and ground water	126,242	:::	27,563	98,679	:::	98,679	::
sourcesacre-feet	121,017		23,088	97,929 750		97,929	
From other irrigation organizationsacre-feet Water deliveredacre-feet To farm and residential users onlyorganizations	5,225 97,999 1	:::	4,475 26,122	71,877		750 71,877	::
To farm and residential users and other	71,877			71,877		71,877	
irrigation organizationsorganizations Water to farm and residential	2		2				
usersacre-feet Water to other irrigation organizationsacre-feet	21,647 4,475		21,647				
To other irrigation organizations onlyorganizations acre-feet				:::			
All of water from other organizationsorganizations			l				l ::
Total water conveyedacre-feet. Water deliveredacre-feet To farm and residential users		:::		:::	:::	:::	::
onlyorganizations acre-feet To farm and residential users and other	:::	:::	:::	:::	:::	:::	::
irrigation organizationsorganizations Water to farm and residential							
users	•••						
To other irrigation organizations onlyorganizations							l
acre-feet No water conveyedorganizations			::: i	:::	:::		
WATER FROM OTHER SOURCES Organizations reporting no water from other sources used on the land served by the organization	223 274,308	187 64,935	19 48,834	12 38,210		3 22,390	122,32
water delivered to farms (acre-feet) acre-feet ber acre	233,001 597,029 2.6	55,672 204,542 3.7	29,292 78,388 2.7	33,340 109,285 3.3		20,700 80,494 3.3	114,69 204,81
Organizations reporting water from other sources used on land served by the organization	75	65	10				
acres served acres irrigated water delivered to farms (acre-feet) acre-feet per acre	41,781 33,577 113,810 3.4	26,948 21,009 66,763 3.2	14,833 12,568 47,047 3.7		:::		
NEW CAPITAL INVESTMENT, 1950-1959 Expenditures for additional new works and equipment for irrigation and drainage additional panuary 1, 1950-becember 31, 1959	133	107	15	8		3	
By U. S. B. R	1,680 2,214,816		158,292	1,680 401,978	1 :::	1,680 341,770	1,491,88

		Columb	da River above Sr	nake River exclud:	ing Yakima River (I-C)	
Item (For definitions and explanations, see text)		Mut	ual	7	U. S. Bureau o	of Reclamation	Commercial.
(101 delinitions and explanations, see text)	All types	Unincorporated	Incorporated	District	Projects and storage systems operated by bureau	Operated by water users	Indian, State, city, and other
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959							
Total entering conveyance systemsorganizations acre-feet	298 1,015,513	252 342,648	29 145,649	12 146,770	:::	107,503	380,446
From another dreinage basinorganizations							:::
From drainage basin,	:::	::::		:::			:::
From sources within basinorganizations	298 1,015,513	252 342,648	29 145,649	12 146,770	:::	107,503	380,44€
Surface waterorganizations	292 999,858	248 339,343	28 133,899	11 146,170		107,503	380,446
Ground waterorganizations	8 15,655	5 3,305	11,750	1 600			
From other organizations in the basin organizations receiving	3 5,225	:::	2 4,475	1 750		1 750	:::
Total leaving conveyance systemsorganizations acre-feet	298 1,015,513	252 341,898	29 145,649	12 147,520		3 108,253	5 380,446
Conveyance loss in basinorganizations acre-feet	263 293 ,79 2	221 70,030	26 19,982	11 38,235	:::	3 27,759	165,545
Conveyed to another drainage basinorganizations							
acre-feet To drainage basin number	:::	:::	:::	:::	:::		:::
Delivered for use in the basinorganizations	298	252	29	12		3	
acre-feet To farm irrigation water usersorganizations	721,721 298	271,868 252	125,667 29	109,285 12	:::	80,494	214,901
acre-feet To domestic water usersorganizations	710,839 9	271,305 6	125,435 2	109,285	:::	80,494	204,814
acre-feet For other useorganizations acre-feet	10,880 1 2	563	230 · 1 2	:::	:::		10,087
Delivered to other irrigation organizations		1					
acre-feet	5,225	750	4,475			•••	•••
SIZE OF ORGANIZATION, 1959 Size of organization (number of farm					1 1		
irrigation water users): Noneorganizations	1		1]		
1 to 3 water usersorganizations 4 to 9 water usersorganizations	161 86	157 75	4 8		:::	 1	
10 to 29 water usersorganizations 30 to 99 water usersorganizations	28 15	17	11 5			 1	
100 to 299 water usersorganizations 300 to 999 water usersorganizations	5 2		i	i		i	3
1,000 or more water usersorganizations	ĩ		:::		:::		i
Size of organization (acre-feet of water delivered directly to farms):							
None organizations	1 73		1 2		:::		:::
300 to 999 acre-feetorganizations 1,000 to 2,999 acre-feetorganizations	96 82	90 71	3 9	3 2	:::	1	
3,000 to 9,999 acre-feetorganizations 10,000 to 29,999 acre-feetorganizations	38	19	13	6		ì	
30,000 to 99,999 acre-feetorganizations 100,000 or more acre-feetorganizations	4			"i	:::		
Size of organization (acre-feet of	•••	•••					
water conveyed): Noneorganizations	1		1	·			
1 to 299 acre-feetorganizations 300 to 999 acre-feetorganizations	60 90	59 84	1 3	:::	:::		:::
1,000 to 9,999 acre-feetorganizations 3,000 to 9,999 acre-feetorganizations	91 44	81 25	9	1 7			
10,000 to 29,999 acre-feetorganizations	8	3	12 4	l	:::		
30,000 to 99,999 acre-feetorganizations 100,000 or more acre-feetorganizations	4	:::	:::	1	:::		3

NA Not available.

		Missouri River b	elow Three Forks, nd Hudson Bay (Re	Montana, (excluded River of the No	ding Platte and Ye orth) (VI-C and VI	llowstone Rivers I)	,
Item (For definitions and explanations, see text)		Muto	ual		U. S. Bureau	of Reclamation	Commercial,
	All types	Unincorporated	Incorporated	District	Projects and storage systems operated by bureau	Operated by water users	Indian, State, city, and other
Irrigation organizationsorganizations 1959 1949 Service area, 1959:	153 172	90 124	38 20	9	4 2	5 NA	1:
Area served, as reported by organizations	517,598	67,344	205,641	194,257	11,623	166,772	38,73
by organizationsacres. Water users served, 1959, totalwater users. Farm irrigation water userswater users. Residential water userswater users. Other water userswater users.	368,733 3,194 3,151 36 7	40,139 314 304 10	1,27,646 1,227 1,196 26 5	162,417 1,228 1,227 	6,887 69 68 	138,269 1,057 1,031 25 1	31,64 35 35
TYPE OF SERVICE, 1959							
All water directly from surface and ground water sources. organizations. Total water conveyed	145 1,088,577 806,720	86 113,402 93,410	36 476,769 373,954	9 372,073 237,579	41,714 38,091	5 307,429 196,439	1; 84,61; 63,68;
onlyorganizations acre-feet To farm and residential users and other irrigation organizationsorganizations	140 712,324 5	92,685	310,871 310,871	237,579	7,503	196,439	63,68
Water to farm and residential usersacre-feet	31,828	675	31,153			•••	
Water to other irrigation organizations	62,568	50	31,930		30,588	•••	
onlyorganizations acre-feet Part of water from other		:	:::	***	::: }		
organizationsorganizations Total water conveyedacre-feet From surface and ground water	5,264	5,264			:		::
sources: acre-feet From other irrigation organizations: acre-feet. Water delivered: acre-feet To farm and residential users only: organizations	3,784 1,480 4,875	3,784 1,480 4,875				•••	
acre-feet To farm and residential users and other irrigation organizationsorganizations	4,875	4,875					
Water to farm and residential usersacre-feet Water to other irrigation organizationsacre-fect							
To other irrigation organizations organizations only. organizations acre-feet.							
All of water from other organizationsorganizations Total water conveyed	3 61,088 44,517	···	2 30,500 26,025		1 30,588 18,492		
To farm and residential users onlyorganizations scre-feet	3 44,517		2 26,025		1 18,492		
To farm and residential users and other irrigation organizations organizations Water to farm and realidential							•••
users acre-feet Water to other irrigation organizations acre-feet	•••			•••		•••	•••
To other irrigation organizations only organizations acre-feet No water conveyed organizations		:::		•••	 1	•••	•••
Organizations reporting no water from other sources used on the land served by the organizations. acres served water feel of the land served by the organizations. acres served water delivered to famm (arre-feet). acre-feet per succe. Organizations reporting water from other organizations reporting water from other server.	128 461,544 329,029 680,382 2.1	76 59,139 34,609 79,679 2.3	29 157,792 93,472 273,443 2.9	9 194,257 162,417 237,579 1.5	2 11,623 6,887 25,995 3.8	5 166,772 138,269 196,284 1.4	12 38,733 31,644 63,68 2.0
sources used on land served by the organizations. organization. acres served. acres irrigated water delivered to farms (acre-feet)	23 56,054 39,704 106,628 2.7	8,205 9,530 18,307 3.3	47,849 34,174 88,321 2.6	:::	··· ··· ···	:::	
NEW CAPITAL INVESTMENT, 1950-1959 Expenditures for additional new works and equipment for irrigation and drainage. January 1, 1930-December 31, 1959	78 17,635,57 <u>1</u> 2,011, <i>27</i> 2	53 87,440	17 332,554	89,621 1,237,029	3 17,545,950	89,621 1,217,029	 354,249

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State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

)	Missouri River bel	ow Three Forks, M Hudson Bay (Red	Aontana, (excluding River of the Nor	ng Platte and Yello th) (VI-C and VII)	owstone Rivers),	
Item (For definitions and explanations, see text)		Mut	ual		U. S. Bureau o	f Reclamation	Commercial
(rot details and expandious) see easy	All types	Unincorporated	Incorporated	District	Projects and storage systems operated by bureau	Operated by water users	Indian, State, city, and other
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959							
Total entering conveyance systemsorganizations acre-feet	153 1,092,361	90 117,186	38 476,769	9 372,073	41,714	5 307,429	12 84,619
From another drainage basinorganizations							
From drainage basin,		:::			:::		:::
From sources within basinorganizations acre-feet	150 1,092,361	90 117,186	36 476,769	9 372,073	41,714	307,429	12 84,619
Surface waterorganizations	148 1,078,563	88 103,388	36 476,769	9 372,073	41,714	307,429	12 84,619
Ground waterorganizations acre-feet	3 13,798	13,798	• • • • • • • • • • • • • • • • • • • •		:::		
From other organizations in the basin organizations receiving	7 62,568	4 1,480	2 30,500		1 30,588		
Total leaving conveyance systemsorganizations acre-feet	153 1,092,361	90 118,616	38 475,339	9 372,073	41,714	5 307,429	12 84,619
Conveyance loss in basinorganizations acre-feet	143 286,715	83 20,381	37 104,958	9 124,764	15,679	101,260	12 20,933
Conveyed to another drainage basinorganizations acre-feet		:::	:::	:::	:::	:::	:::
To drainage basin numberD. B. No			***				
Delivered for use in the basinorganizations acre-feet	805,646	90 98,235 90	38 370,381 38	247,309	26,035	206,169	63,686
To farm irrigation water usersorganizations acre-feet	787,010	97,986	361,764	237,579	25,995	196,284	63,686
To domestic water usersorganizations acre-feet For other useorganizations acre-feet	6,534 6 12,102	249	6,285 4 2,332	9,730	i 40	155 1 9,730	:::
Delivered to other strigation organizations delivering acter-feet	5 62,568	1 50	3 31,930	:::	1 30,588	:::	:::
SIZE OF ORGANIZATION, 1959							
Size of organization (number of farm irrigation water users): organizations. None	2 73 38 16 18 4 2	66 22 2	 5 11 11 9 1	11 2 2 1	2 1 1 	 1 3 1	2 4 1 4 1
Size of organization (acre-feet of water delivered directly to farms): None	2				2		
None	25 41 46 16 19 3	24 32 29 4 1	1 5 11 11 8 2	1 6 1	1 1 1 	1 1 2 1	3 6
Size of organization (acre-feet of water conveyed):	1						
None	1 21 38 42 22 19 9	20 32 27 10 1	3 10 10 8 6	 1 6 1	1 1 1 2	1 1 2 1	3 4 2 3

NA Not available.

		Ye	llowstone River a	nd Big Horn River	(VI-F and VI-G)		
Item		Mut	ual		U. S. Bureau	of Reclamation	
(For definitions and explanations, see text)	All types	Unincorporated	Incorporated	District	Projects and storage systems operated by bureau	Operated by water users	Commercial, Indian, State, city, and other
Irrigation organizationsorganizations 1959	293 317	185 214	90 82	14 11		7 NA	10
Service area, 1959: Area served, as reported by organizationsacres	496,304	110,194	224,154	125,439		88,896	36,517
Area irrigated, as reported by organizationsacres	446,753	97,979	204,724	114,112		79,821	29,938
	5,471	853	3,111	1,241		673	266
Water users served, 1959, total. water users. Farm irrigation water users. water users. Residential water users water users. Other water users. water users.	4,552 915 4	797 55 1	2,413 696 2	1,076 164 1		667 5 1	266
TYPE OF SERVICE, 1959							
All water directly from surface and ground water sources. organizations. Total water conveyed. sore-feet. Water delivered. sore-feet. To farm and residential users	2,282,289 1,710,242	184 436,890 365,694 184	1,155,025 902,235	12 549,586 313,225		432,039 204,288	140,788 129,088
onlyorganizations acre-feet	1,240,246	365,694	459,473	285,991	:::	204,288	129,088
To farm and residential users and other irrigation organizationsorganizations Water to farm and residential	9		8	1			
water to other irrigation	365,679		342,945	22,734		•••	
organizationsacre-feet To other irrigation organizations	104,317		99,817	4,500			
onlyorganizations acre-feet					:::		:::
Part of water from other organizationsorganizations Total water conveyedacre-feet	31,262	10,500	3 4,010	2 16,752		1 216	:::
From surface and ground water sourcesacre-feet	15,871	4,500	1-2,240	13,611			
From other irrigation organizationsacre-feet Water deliveredacre-feet To farm and residential users onlyorganizations	15,391 24,053	6,000 8,400	6,250 3,035	3,141 12,618	:::	216	
acre-feet To farm and residential users and other	24,053	8,400	3,035	12,618		216	
irrigation organizationsorganizations Water to farm and residential	***			*			
usersacre-feet Water to other irrigation organizationsacre-feet							
To other irrigation organizations onlyorganizations							
acre-feet	10		10				
All of water from other organizationsorganizations Total water conveyed	89,142 72,428		89,142 72,428		:::		
onlyorganizations acre-feet	10 72,428		10 72,428			:::	:::
To farm and residential users and other irrigation organizationsorganizations							
Water to farm and residential usersacre-feet							
Water to other irrigation organizationsacre-feet							
To other irrigation organizations onlyorganizations	***						
acre-feet No water conveyedorganizations	2	:::	2			:::	
WATER FROM OTHER SOURCES Organizations reporting no water from other							
sources used on the land served by the organizationorganizations	268 497,140	167 98,921	83 207,436	14 154,266		7 117,723	36,517
acres served acres irrigated water delivered to farms (acre-feet) acre-feet per acre	497,140 449,095 1,616,026 3.6	88,376 334,016 3.8	189,504 771,124	154,266 141,277 381,798 2.7		117,723 106,986 273,332 2.6	29,938 129,088 4.3
Organizations reporting water from other sources used on land served by the	210						
organizationorganizations	23 28,821	18 11,623	5 17.198				
acres irrigated water delivered to farms (acre-feet) acre-feet per acre	25,533 138,271 5.4	9,833 40,034 4.1	17,198 15,700 98,237 6.2				
NEW CAPITAL INVESTMENT, 1950-1959							1
Expenditures for additional new works and equipment for irrigation and drainage, organizations. January 1, 1950-lecember 31, 1959	179 1,937,082	122 275,804	44 568,768	10 1,015,510		959,810	3 77,000

			Yellowstone River	and Big Horn Riv	er (VI-F and VI-G))	
Item (For definitions and explanations, see text)		Mut	ual		U. S. Bureau	of Reclamation	
(FO) delinicione and explanations, are conve	All types	Unincorporated	Incorporated	District	Projects and storage systems operated by bureau	Operated by water users	Commercial, Indian, State, city, and other
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959							
Total entering conveyance systemsorganizations acre-feet	291 2,298,376	185 441,390	88 1,152,785	14 563, 413	:::	7 432,255	140,788
From another drainage basinorganizations acre-feet From drainage basinD. B. No	2,786	2,290	280	1 216		1 216	
From sources within basinorganizations	279	185	77	13		6	4
Surface waterorganizations	2,295,590 278	439,100 184	1,152,505 77	563,197 13		432,039	140,788
Ground waterorganizations	2,294,478	437,988	1,152,505	563,197	:::	432,039	140,788
acre-feet	1,112	1,112					
From other organizations in the basinorganizations receiving acre-feet	104,317	6,000	95,392	2,925	:::	:::	:::
Total leaving conveyance systemsorganizations acre-feet	291 2,298,376	185 447,390	88 1,148,360	14 561,838		432,255	140,788
Conveyance loss in basinorganizations acre-feet	280 494,960	181 73,286	83 270,479	13 139,495		126,751	3 11,700
Conveyed to another drainage basinorganizations	100,000			100,000		100,000	
To drainage basin number	100,000			100,000	:::	100,000	
Delivered for use in the basinorganizations	291 1,703,416	185 374,104	88 877,881	14 322,343		7 205,504	129,088
To farm irrigation water usersorganizations	291	185	88	14	:::	7	4
acre-feet To domestic water usersorganizations	1,683,319	373,360 3 734	868,401	312,470 3 8,873	:::	204,004 1 500	129,088
acre-feet For other useorganizations acre-feet	19,087 2 1,010	734 1 10	9,480	1,000		1,000	
Delivered to other impation organizations organizations delivering.	104,317		8 99,817	1 4,500	:::		
acre-feet SIZE OF ORGANIZATION, 1959	104,017		99,017	4,500			
Size of organization (number of farm irrigation water users): None	2 101 112 46 21 10	92 86 6 1	2 8 26 33 16 5	 6 3 4 1		 3 3	1 1 1 1 1
Size of organization (acre-feet of water						•••	
delivered directly to farms): None	2 21 74 87 72 25 9 3	17 66 70 29 3	2 3 8 17 34 20 5	 7 2 4		3	2 2
Size of organization (acre-feet of water conveyed): None	2 17 68 80 75 37 10	14 . 62 . 66 . 37 . 6	2 2 6 14 34 25 6	 3 5 4 2		 1 2 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

NA Not available.

Whater was transferred to the basin and released to natural stream channels in excess of the quantity of surface water withdrawn by irrigation organizations. The net effect was to increase the available surface water supply in the hasin or State.

		Misso	uri River Headwat	ers above Three	Forks, Montana (VI	-H)	
Item (For definitions and explanations, see text)		Mut	181		U. S. Bureau o	f Reclamation	Commercial.
(FOT delimitions and explanations, see Dext)	All types	Unincorporated	Incorporated	District	Projects and storage systems operated by bureau	Operated by water users	Indian, State, city, and other
rrigation organizationsorganizations 1959	305 350	260 313	45 33		:::	NA.	
ervice area, 1959: Area served, as reported by organizations	312,977	179,658	133,319	•••			
Area irrigated, as reported by organizationsacres	265,133	148,174	116,959				
ater users served, 1959, totalwater users Farm irrigation water userswater users	1,858	1,029	829				
Residential water userswater users Other water userswater users	1,840 18	1,012	828 1				
TYPE OF SERVICE, 1959							1
11 water directly from surface and ground water sources	287 1,552,692 1,175,609	249 840,142 670,141	38 712,550 505,468				:. ::
onlyorganizations	279 1,063,735	656,661	407,074				::
To farm and residential users and other irrigation organizations organizations Water to farm and residential	8	2	6				
usersacre-feet	26,071	4,535	21,536				
Water to other irrigation organizationsacre-feet To other irrigation organizations	85,803	8,945	76,858				
onlyorganizations					:::		::
Part of water from other	6	,	2				1
organizations	19,807	7,982	11,825		:::		::
sourcesacre-feet From other irrigation organizationsacre-feet	14,135 5,672	4,560 3,422	9,575 2,250		:::		::
Water deliveredacre-feet To farm and residential users	15,447	6,620	8,827				
onlyorganizations	8,247	6,620	1,627				::
To farm and residential users and other irrigation organizations organizations Water to farm and residential	1		1				
water to other irrigation	3,300		3, 300	•••		***	
organizationsacre-feet To other irrigation organizations organizations	3,900		3,900				
acre-feet							
All of water from other organizationsorganizations Total water conveyed	10 84,031 56,840	21,631 17,600	3 62,400 39,240	•••			::
onlyorganizations acre-feet	10 56,840	17,600	3 39,240				::
To farm and residential users and other irrigation organizationsorganizations							
Water to farm and residential users							
organizationsacre-feet To other irrigation organizations							
onlyorganizations		:::			:::		::
No water conveyedorganizations	2		2			• • •	
WATER FROM OTHER SOURCES Organizations reporting no water from other sources used on the land served by the	189		22				
organizationorganizations acres served	174,592	167 109,723	64,869		:::		::
acres irrigated water delivered to farms (acre-feet)	148,314 643,735	89,785 423,114	58,529 220,621				::
acre-feet per acre Organizations reporting water from other	4.3	4.7	3.8				
sources used on land served by the organizationorganizations	113	92	21				
acres served acres irrigated	138,385 116,819	69,935 58,389	68,450 58,430		:::1		::
water delivered to farms (acre-feet) acre-feet per acre	508,818	261,580 4.5	247,238 4.2		:::	:::	::
NEW CAPITAL INVESTMENT, 1950-1959 Expenditures for additional new works and					1		
Expenditures for additional new works and equipment for irrigation and drainage, January 1, 1950-December 31, 1959organizations By U. S. B. Rdollars	124	103	21		:::		
By water users organizationsdollars	440,280	209,290	230,990				

		Was a	www. Divon Voodwoi	town about Three	Forks, Montana (VI	11)	
Item	-	Misso		ters above inree	U. S. Bureau o		
(For definitions and explanations, see text)	All types	Unincorporated	Incorporated	District	Projects and storage systems operated by bureau	Operated by water users	Commercial, Indian, State, city, and other
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959							
Total entering conveyance systemsorganizations acre-feet	303 1,566,827	260 844,702	43 722,125				
From another drainage basinorganizations						***	
Prom drainage basin		:::			:::		:::
From sources within basinorganizations	291	251	40				
acre-feet Surface waterorganizations	1,566,827 288	844,702 248	722,125 40	***	:::		::
acre-feet Ground waterorganizations	1,549,740 5	837,065	712,675		:::		
acre-feet	17,087	7,637	9,450	***			
From other organizations in the basin organizations receiving	84,703	25,053	64,650		:::		:::
Total leaving conveyance systemsorganizations acre-feet	303 1,566,827	260 860,810	706,017				
Conveyance loss in basinorganizations	293 408,634	252 175,394	41 233,240				
Conveyed to another drainage basinorganizations	***						
To drainage basin number				***			:::
Delivered for use in the basinorganizations	301	259	42				
acre-feet To farm irrigation water usersorganizations	1,158,193 301	685,416 259	472,777 42				:::
acre-feet To domestic water usersorganizations	1,152,553	684,694	467,859	***			:::
For other useorganizations	5,640	722	4,918				
acre-feet							
l'elivered to other ungation organizationsorganizations delivering	9	2	7				
acte-feet	89,703	8,945	80,758				
SIZE OF ORGANIZATION, 1959							
Size of organization (number of farm irrigation water users):							
Noneorganizations 1 to 3 water usersorganizations	6 184	3 180	3 4				:::
4 to 9 water usersorganizations 10 to 29 water usersorganizations	67 40	58 19	9 21				
30 to 99 water usersorganizations	8		8				:::
100 to 299 water usersorganizations 300 to 999 water usersorganizations		:::					
1,000 or more water usersorganizations					:::		:::
Size of organization (acre-feet of water delivered directly to farms):							
Noneorganizations 1 to 299 acre-feetorganizations	4 20	1 20	3		:::		:::
300 to 999 acre-feetorganizations	71	68	3				
1,000 to 2,999 acre-feetorganizations 3,000 to 9,999 acre-feetorganizations	102 78	97 63	5 15		:::		
10,000 to 29,999 acre-feetorganizations	29	11	18				
30,000 to 99,999 acre-feetorganizations 100,000 or more acre-feetorganizations		:::			:::		:::
Size of organization (acre-feet of water conveyed):							
Noneorganizations 1 to 299 acre-feetorganizations	2 15		2		:::		
300 to 999 acre-feetorganizations	63	63					
1,000 to 2,999 acre-feetorganizations 3,000 to 9,999 acre-feetorganizations	100 83	94 70	6		:::		
10,000 to 29,999 acre-feetorganizations	34	18	16				
30,000 to 99,999 acre-feetorganizations 100,000 or more acre-feetorganizations	8	:::			:::		
,			[

NA Not available.

State Table 5.-NUMBER OF IRRIGATION ORGANIZATIONS, TYPE OF SERVICE, NEW CAPITAL INVESTMENT, AND WATER CONVEYED, BY SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUS OF 1959

Item		Montana	, total		Columbia exc	River above Snak luding Yakima Riv (I-C)	e River er
(For definitions and explanations, see text)			Size of or	ganization, b	y total water conv	reyed	
	0-999 acre-feet	1,000- 9,999 acre-feet	10,000- 99,999 acre-feet	100,000 or more acre-feet	0-999 acre-feet	1,000-9,999 acre-feet	10,000 or more acre-feet
humber of organizationsorganizations	378	537	129	6	151	135	
TYPE OF SERVICE	364	516	116				
Total water offectly from surface and ground sources. organizations. Total water conveyed	175,188	1,723,066 1,402,042	2,859,586	1,060,214	150 63,890	135 395,498	435,1
To farm and residential users onlyorganizations	148,470 363	509	2,110,785 102	660,219 5	53,760 150	316,291 134	258,8
To farm and residential users and other	147,745	1,360,228	1,644,128	488,779	53,760	311,921	258,8
irrigation organizations	1 675	25,826	14 272,557	128,140	• • • • • • • • • • • • • • • • • • • •	3,620	:
To other irrigation organizations onlyorganizations	50	15,988	194,100	43,300		750	:
acre-feet				• • • •	•••		
Part of water from other organizationsorganizations Total water conveyedacre-feet	3,282	25,799	6 153,494		:::	:::	126,2
From surface and ground water sourcesacre-feet From other irrigation organizationsacre-feet	1-1,440 4,722	17,119 8,680	139,128 14,366	:::	:::		121,0
Water deliveredacre-feet To farm and residential users onlyorganizations	2,645	20,712	119,017		:::	:::	97,9
acre-feet To farm and residential users and other	2,645	13,512	92,895				71,8
irrigation organizations		1 3,300	21,647				21,6
Water to other irrigation organizationsacre-feet		3,900	4,475	:::			4,4
To other irrigation organizations onlyorganizations acre-feet			:::			***	
all of water from other organizationsorganizations	308	13 52,765	181 188				.
Total water conveyed	273	41,745	131,767		***		:
To farm and residential users onlyorganizations acre-feet	273	13 41,745	131,767				:
To farm and residential users and other irrigation organizationsorganizations							
Water to farm and residential usersacre-feet Water to other irrigation organizationsacre-feet					:::	***	
To other irrlgation organizations onlyorganizations acre-feet							:
lo water conveyedorganizations	6				1		
WATER FROM OTHER SOURCES							
Organizations reporting NO water from other sources used on land served by the organizationorganizations	305	395	102	6	112	100	
acres served	88,772 58,452	350,795 304,080	681,691 530,385	286,326	23,020 17,526	78,054	173,2
Organizations reporting water from other sources used	30,432	504,000	250,562	266,522	17,520	69,770	145,7
on land served by the organizationorganizations acres served	67 18,001	142 130,244	25 116,796		38 8,628	35 28,333	4,8
acres irrigated	11,707	101,323	102,603		6,144	23,863	3,5
NEW CAPITAL INVESTMENT, 1950-1959 Expenditures for additional new works and							
							Ì
expenditures for additional new works and equipment for irrigation and drainage, organizations. January 1, 1950-December 31, 1959	155 162,081	280 1,164,279	74 21,565,830	5 1,348,511	62 50,874	62 282,214	1,883,4
equipment for irrigation and drainage, January 1, 1950-December 31, 1959	155 162,081	280 1,164,279	74 21,565,830	5 1,348,511	62 50,874	62 282,214	1,883,4
equipment for irrigation and drainage, January 1, 1950-December 31, 1959organizations dollars	372	280 1,164,279 537 1,740,185	129	6	150	1.35	
equipment for irrigation and drainage, January 1, 1950-December 31, 1959 organizations dollars WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959 Total antering conveyance systems in basin. organizations ere-feet From another drainage basin. organization.	372 173,748	537 1,740,185	129 2,998,930 2	1,060,214	150 63,890	135 395,498	556,1
equipment for irrigation and drainage, January 1, 1950-lecember 31, 1959	372 173,748	537 1,740,185 1 2,570	129 2,998,930 2 216	1,060,214 	150 63,890 	135 395,498 	556 , 1
equipment for irrigation and drainage, January 1, 1950-lecember 31, 1959	372 173,748 367 173,748	537 1,740,185 1 2,570 523 1,737,615	129 2,998,930 2 216 121 2,998,714	1,060,214 6 1,060,214	150 63,890 150 63,890	135 395,498 135 395,498	556,1 • • • • •
equipment for irrigation and drainage, January 1, 1950-lecember 31, 1959. organizations. dollars. WATER CONVEYED BY IRRUGATION ORGANIZATIONS, 1959 Total antering conveyance systems in basin. organizations. ere-feet. From another drainage basin. organizations. From Promanizations. From Prainage Basin number. D. B. No. From natural sources within basin organizations. acre-feet. Surface water. organizations.	372 173,748 	537 1,740,185 1 2,570	129 2,998,930 2 216 	1,060,214 6 1,060,214 6 1,060,214	150 63,890 	135 395,498 	556,1 556,1
equipment for irrigation and draininge, January 1, 1950-December 31, 1959. organizations. dellars WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959 Total antering conveyance systems in basin. organizations. acrefeet. From another drainage basin. organizations. acrefeet. From Drainage Basin number. D. B. No. From brainage Basin number. organizations. acre-feet. Surface water. organizations acre-feet. Ground water. organizations.	372 1-3,748 367 173,748 362 171,632 6 6 2,116	537 1,740,185 1 2,570 523 1,737,615 517 1,712,779 11 24,836	129 2,998,930 2 216 121 2,998,714 120 2,978,014 2 20,700	1,060,214 6 1,060,214	150 63,890 150 63,890	135 395,498 135 395,498	556,1 556,1
equipment for irrigation and draininge, January 1, 1950-December 31, 1959. dollars. WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959 Total entering conveyance systems in basin. organizations. ere-feet. From another drainage basin. congunizations. ere-feet. From breinage Basin number. ere-feet. From nutural sources within basin. organizations. Surface water. organizations. Ground water. organizations. Ground water. organizations.	372 173,748 367 173,748 362 171,632	537 1,740,185 1 2,570 523 1,737,615 517 1,712,779	129 2,998,930 2 216 121 2,998,714 120	1,060,214 6 1,060,214 6 1,060,214	150 63,890 150 63,890 146 62,286	135 395,498 135 395,498 133 381,447	556,1 556,1
equipment for irrigation and draininge, January 1, 1950-December 31, 1959. dollars. WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959 Total antering conveyance systems in basin. organizations. Accepted antering conveyance systems in basin. organizations. Accepted antering conveyance systems in basin. organizations. Accepted antering conveyance systems organizations. Accepted antering conveyance systems. organizations. Accepted antering conveyance systems. organizations. Accepted antering conveyance systems. organizations. Accepted antering conveyance systems. organizations. Accepted antering conveyance systems. organizations. Accepted antering conveyance systems.	372 173,748 367 173,748 362 171,632 6 2,116 8 5,030	1,740,188 1,2,570 1,737,615 517 1,712,779 11 24,836 21 61,445 537	129 2,998,930 2 216 121 2,998,714 120 2,978,014 2 20,700 12 195,338 129	1,060,214 6 1,060,214 6 1,060,214 	150 63,890 150 63,890 146 62,286 5 1,604	135 395,498 135 395,498 133 381,447 3 14,051	556,1 556,1 556,1
equipment for irrigation and draininge, January 1, 1950-December 31, 1959-, organizations. water CONVEYED BY IRRIGATION ORGANIZATIONS, 1959 Fotal entering conveyance systems in basin. organizations. ere-feet. From another drainage basin. organizations. From breinage basin number. organizations. From natural sources within basin. organizations. Surface water. organizations. Ground water. organizations. From organizations in the basin. organizations. ere-feet. ere-feet. ere-feet. from organizations in the basin. organizations received. From order organizations or the basin. organizations. organizations. organizations. organizations. organizations. organizations. organizations. organizations. organizations. organizations. organizations. organizations. organizations. organizations. organizations.	372 173,748 367 173,748 362 171,632 6 2,116 6 2,116 8 3,030 372 178,728 333	1,740,188 1,2,570 1,737,615 517 1,712,779 11 24,836 21 61,445 537 1,781,742	129 2,998,930 2 216 121 2,998,714 120 2,978,014 2 20,700 12 195,338 129 2,995,693	1,060,214 1,060,214 1,060,214 6 1,060,214 6 1,016,914	150 63,890 150 63,890 146 62,286 5 1,602 150 63,890 125	135 395,498 135 395,498 133 361,447 3 14,051 135 394,748	556,1
equipment for irrigation and drainage, January 1, 1950-December 31, 1959. organizations. dollars. WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959 Fotal antering conveyance systems in basin. organizations. ere-feet. From another drainage basin. organizations. ere-feet. From Drainage Basin number. D. B. No. From natural sources within basin. organizations. acre-feet. Ground water. organizations. ere-feet. Ground water. organizations. ere-feet. From organizations the basin. organizations receiving. ere-feet. Conveyance loss in basin. organizations. Conveyance loss in basin. organizations. corporations.	372 173,748 367 173,748 362 171,632 6 2,116 8 5,030 372 178,728	537 1,740,185 1 2,570 523 1,737,615 1,712,779 11 24,836 61,445 11,781,742	129 2,998,930 2 216 121 2,998,714 120 2,978,014 2 20,700 12 195,338 129 2,995,693	1,060,214 6 1,060,214 6 1,016,914 6 298,995	150 63,890 150 63,890 146 62,286 5 1,604 150 63,890	135 395,498 135 395,498 1 133 381,447 14,051 113,33 381,447	556,1 556,1 556,1 5,2 556,8
equipment for irrigation and draininge, January 1, 1950-December 31, 1959	372 173,748 367 173,748 362 171,632 6 2,116 8 5,030 372 179,728 333 27,728	537 1,740,185 1 2,570 523 1,737,615 517 1,712,779 11 24,836 61,445 537 1,781,742 337,074	129 2,998,930 216 121 2,998,714 12,998,714 12 2,978,014 2 20,700 12 195,338 129 2,995,693 121 820,652	1,060,214	150 62,990 150 63,890 62,286 62,286 62,286 62,286 10,604 10,604 125 10,130	135 395,498 135 395,408 381,447 3 14,051 135 394,748 125 79,205	556,1 556,1 556,1 5,2 556,8
equipment for irrigation and drainage, January 1, 1950-December 31, 1959. organizations. dollars. WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959 Fotal antering conveyance systems in basin. organizations. ere-feet. From another drainage basin. organizations. ere-feet. From Drainage Basin number. D. B. No. From natural sources within basin. organizations. acre-feet. Ground water. organizations. ere-feet. Ground water. organizations. ere-feet. From organizations the basin. organizations receiving. ere-feet. Conveyance loss in basin. organizations. Conveyance loss in basin. organizations. corporations.	372 173,748 367 173,748 362 171,632 171,632 6 2,116 5,000 372 178,728 333 27,320	537 1,740,185 1 2,570 523 1,737,615 517 1,712,779 1 11 24,836 61,445 537 1,781,742 519 237,742 	129 2,998,930 2 2 121 2,998,714 12,998,714 2 20,700 12 195,338 129 2,995,693 121 820,652	1,060,214 6 1,060,214 6 1,060,214 6 1,016,914 6 298,995 1 100,000	150 63,890 150 63,890 1-66 62,889 5 1,664 150 63,890 125 10,130	395,498	556,1 556,1 556,1 5,2 556,8
equipment for irrigation and draininge, January 1, 1950-December 31, 1959. dollars. WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959 Notal entering conveyance systems in basin. organizations. Acceptable of the systems of the sys	372 173,748 367 173,748 362 174,632 174,632 174,632 178,728 372 178,728 	1,740,185 1,740,185 1,7523 1,737,615 1,712,779 1,712,779 1,712,779 1,712,779 1,448,36 1,449,37 1,781,742 1,781,742 1,781,744 1,781,744 1,781,744 1,444,668 1,444,668	2,998,930 2,216 2,998,721 2,998,720 2,978,02 2,978,02 20,700 12 195,338 129 2,995,693 121 820,622 127 2,175,641	1,060,214 6 1,060,214 1,01e,914 	150 63,890 150 63,890 1-66 62,889 1.664 150 63,890 125 10,130 150 53,760	135 395,498 135 395,498 133 381,447 14,051 135 394,748 297,205 	556,1 556,1 556,1 5,2 556,8 204,4
equipment for irrigation and draininge, January 1, 1950-December 31, 1959- WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959 Fotal entering conveyance systems in basin	372 173,748 173,748 362 171,632 6 2,16 6 2,16 7,728 372 173,728	1,740,185 1,740,185 1,2,570 1,737,615 2,177,711 2,186 1,712,777 1,712,777 1,712,777 1,712,777 1,712,772 1,712,772 1,712,772 1,712,772 1,712,774 1,	2,998,930 2166 2,998,712 2,998,712 2,978,014 2,978,014 12 195,338 1,012 2,998,693 1,012 2,999,693 1,012 2,175,041 1,175,041 1,175,041 1,175,041 1,175,041 1,175,041 1,175,041	1,060,214 1,060,214 1,060,214 1,016,914 298,995 10,000 617,919 6606,332	150 63,890 1590 63,890 146 62,286 150 63,890 10,130 150,50 23,700 25,700 25,700 25,700 25,700	395,498 395,498 395,498 133 395,498 14,451 14,551 155 394,748 195 79,205 193 315,453 315,453 315,453	556,1 556,1 556,1 5,2 556,8 204,4
equipment for irrigation and draininge, January 1, 1950-December 31, 1959. organizations. WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959 Total entering conveyance systems in basin. organizations. Prom another draininge basin. organizations. From Draininge Ratin number. D. B. No. Prom braininge Ratin number. organizations. Surface water. organizations. Ground water. organizations.	372 173,745 367 173,746 362 171,632 6 2,116 8 5,030 372 174,732 175,730 172 191,746 171 181,747 181,74	1,740,185 2,970 2,970 523 1,973,615 517 1,712,779 111 24,836 61,445 71,781,747 237,744 536 1,444,668 1,444,668 1,437,033 6,7379 7,379 7,379	2,995,900 121 2,998,714 120 2,998,714 120 2,978,014 20,707 195,338 2,999,699 121 127 2,179,01 127 2,139,639 23,338 23,338	1,060,214 1,060,214 1,060,214 1,060,214 1,060,214 1,016,914 298,995 1100,000 617,919 606,332 10,987	150 63,890 1590 63,890 1-66 62,286 150 63,890 10,130 150 53,760 53,760 53,760 53,760	395,498 135 395,498 135,497 381,447 31,4051 14,051 125,79,205 135,543 315,543 315,543 315,543	556,1 556,1 556,1 5,2 556,8 204,4 352,4 342,3
equipment for irrigation and draininge, January 1, 1950-December 31, 1959. organizations. WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959 Total antering conveyance systems in basin. organizations. Prom another drainage basin. organizations. From Drainage Basin number. D. B. No. Prom brainage Basin number. organizations. From horalinge Basin number. organizations. Ground water. Ground water. Ground w	372 173,745 367 173,748 362 171,632 2,116 5,030 372 178,728 333 372,290 151,348 161,101 161,10	1,740,185 1,740,185 1,25,70 1,727,615 1,727,615 1,727,617 1,727,77 1,	2,998,900 2,998,900 121 2,998,714 120 2,978,014 2,978,014 121 127 2,999,693 121 127 2,179,641 127 2,179,641 127 2,179,641 127 2,179,641 127 2,179,641 127 2,179,641	1,060,214 1,060,214 1,060,214 1,060,214 1,016,914 298,999 100,000 6 617,919 606,3332 1,00,001	150 63,890 1590 63,890 1-6 62,286 5 1.60 150 63,890 120 53,700 150 53,700 150 55,196	135 395,498 135 395,498 133 381,447 14,051 135 394,748 125 79,205 135 135,543 135 135 135 135 135 135 135 13	556,1 556,1 556,1 5,2 556,8 204,4 352,4 342,3
equipment for irrigation and draininge, January 1, 1950-December 31, 1959. WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959 Total antering conveyance systems in basin. organizations. acre-feet. Prom another drainage basin. organizations. From brainage Basin number. D. B. No. From brainage Basin number. organizations. acre-feet. Surface water. organizations. Ground water. organizations. Ground water. organizations. From other organizations in the basin. organizations. acre-feet. Conveyance loss in basin. organizations. conveyance loss in basin. organizations. Conveyed to another drainage basin. organizations. Delivered for use in the basin. organizations. To farm irrigation water users. organizations. To residential water users. organizations. To residential water users. organizations. To residential water users. organizations. Corganizations organizations. To residential water users. organizations. Corganizations. Corganizations. Corganizations organizations.	372 173,745 367 173,746 362 171,632 6 2,116 8 5,030 372 174,732 175,730 172 191,746 171 181,747 181,74	1,740,185 2,970 2,970 523 1,973,615 517 1,712,779 111 24,836 61,445 71,781,747 237,744 536 1,444,668 1,444,668 1,437,033 6,7379 7,379 7,379	2,998,910 216 12,998,714 2,998,714 120 2,978,014 12 12,978,014 12 12,975,693 121 820,652 121 2,175,014 2,175,014 2,175,016 3,175,016 12,175,016 12,175,016 12,175,016	1,060,214 1,060,214 1,060,214 1,060,214 1,060,214 1,016,914 298,995 1100,000 617,919 606,332 10,987	150 63,990 150 63,890 63,890 1-6 62,286 62,286 62,280 150 150 150 150 150 150 150 150 150 15	395,498 135 395,498 135,497 381,447 31,4051 14,051 125,79,205 135,543 315,543 315,543 315,543	556,1 556,1 556,1 5,2 556,8 204,4 352,4 342,3
equipment for irrigation and draininge, January 1, 1950-December 31, 1959. organizations. water CONVEYED BY IRRIGATION ORGANIZATIONS, 1959 Total antering conveyance systems in basin. organizations. accepted. From brainage basin. organizations. From brainage Basin number. D. B. No. From brainage Basin number. organizations. acre-feet. Surface water. organizations. Ground water. organizations. Ground water. organizations. From other organizations in the basin. organizations. acre-feet. Conveyance loss in basin. organizations. conveyed to another drainage basin. organizations. To drainage basin number. D. B. No. Delivered for use in the basin. organizations. To farm irrigation water users. organizations. To residential water users. organizations. To residential water users. organizations. To residential water users. organizations. acre-feet. For other use. organizations. AVERAGE BELIVERY OF IRRIGATION WATER PER ACRE, 1959 Per acre, Intrasted. as proported by irrigation organization. Outprised or organization.	173,748	1,740,185 2,770,185 1,737,615 1,737,615 1,712,779 11 24,836 537 1,781,742 536 1,444,668 1,444,668 1,447,323 7,379 19,888	2,998,900 216 216 2,998,704 120 2,998,704 120 2,978,014 129 195,338 1121 820,652 127 2,179,641 127 2,179,641 127 2,179,641 127 2,179,641 149,575	1,060,214 6 1,060,214 6 1,060,214 1,060,214 1,016,914 100,000 6 617,919 100,000 1,016,914 1,000 1,14,300	150 63,890 150 63,890 146 62,286 62,286 62,286 63,890 125 1,000 125 10,130 150 53,760 53,197 66 66 63 63 63 63 63 63 63 63 63 63 63	135 395,498 135 395,598 313,33 381,447 3 14,051 135 394,748 125 79,205 135 315,343 315,343 315,343 315,343 315,343 315,343 315,343 315,343	556,1 556,1 556,1 5,2 556,8 204,4 332,4 342,3 10,0
equipment for irrigation and draininge, January 1, 1950-December 31, 1959. WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959 Total antering conveyance systems in basin. organizations. acre-feet. Prom another drainage basin. organizations. From brainage Basin number. D. B. No. From brainage Basin number. organizations. acre-feet. Surface water. organizations. Ground water. organizations. Ground water. organizations. From other organizations in the basin. organizations. acre-feet. Conveyance loss in basin. organizations. conveyance loss in basin. organizations. Conveyed to another drainage basin. organizations. Delivered for use in the basin. organizations. To farm irrigation water users. organizations. To residential water users. organizations. To residential water users. organizations. To residential water users. organizations. Corganizations organizations. To residential water users. organizations. Corganizations. Corganizations. Corganizations organizations.	372 173,745 367 173,748 362 171,632 2,116 5,030 372 178,728 333 372,290 151,348 161,101 161,101 161,101	1,740,185 1,740,185 1,25,70 1,727,615 1,727,615 1,727,617 1,727,77 1,	2,998,900 2,998,900 121 2,998,714 120 2,978,014 2,978,014 121 127 2,999,693 121 127 2,179,641 127 2,179,641 127 2,179,641 127 2,179,641 127 2,179,641 127 2,179,641	1,060,214 1,060,214 1,060,214 1,060,214 1,016,914 298,999 100,000 6 617,919 606,3332 1,00,001	150 63,890 1590 63,890 1-6 62,286 5 1.60 150 63,890 120 53,700 150 53,700 150 55,196	135 395,498 135 395,498 133 381,447 14,051 135 394,748 125 79,205 135 135,543 135 135 135 135 135 135 135 13	1,883,4 556,1 556,1 556,1 556,2 556,8 204,4 352,4 342,3 10,0

¹Water was transferred to the basin and released to natural stream channels in excess of the quantity of surface water withdrawn by irrigation organizations. The net effect was to increase the available surface water supply in the basin or State.

State Table 5.—NUMBER OF IRRIGATION ORGANIZATIONS, TYPE OF SERVICE, NEW CAPITAL INVESTMENT, AND WATER CONVEYED, BY SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUS OF 1959—Continued

Item	excluding Plat Hudson Bay	r below Three For te and Yellowston (Red River of th (VI-C and VII)	e Rivers, and		Yellowsto Big Horn (VI-F an	Rivers	
(For definitions and explanations, see text)		Size	of organization, h	y total water	conveyed		
	0-999 acre-feet	1,000-9,999 acre-feet	10,000 or more acre-feet	0-999 acre-feet	1,000- 9,999 acre-feet	10,000- 99,999 acre-feet	100,000 or more acre-feet
1 Number of organizations	60	64	29	87	155	47	4
2 All water directly from surface and ground sourcesorganizations	58 25.785	60	27 888,294	81 45,160	149 542,858	1,013,674	680,597
Total water conveyedacre-feet Water deliveredacre-feet	21,552	174,498 133,571	651,597	39,595	456,062	771,781	442,804
Total mater conveyed	20,827	125,381	566,116	81 39,595	148 451,717	477,570	271,364
irrigation organizationsorganizations	1	1	3		1	7	1
8 Water to farm and residential usersaere-feet 9 Water to other irrigation organizationsaere-feet 10 To other irrigation organizations onlyorganizations	675 50	6,190 2,000	24,963 60,518	:::	1,420 2,925	236,119 58,092	128,140 43,300
acre-feet Part of water from other organizationsorganizations							
Total water conveyed	350 300	4,914 3,484		1,510	2,500 1,500	27,252 18,111	
	50 250	1,430		1-1.740 3,250	3,000	9,141	
Water deliveredacre-feet To farm and residential users onlyorganizations	1	4,625	:::	1,035 2 1.035	2,000 1 2,000	21,018 3 21.018	
18 acre-feet 19 To farm and residential users and other	250	4,625					•••
irrigation organizationsorganizations Water to farm and residential usersacre-feet		:::	:::	:::	:::		
Water to other irrigation organizationsacre-feet To other irrigation organizations onlyorganizations			:::	:::			
8cre-feet							
All of water from other organizationsorganizations Total water conveyedacre-feet		2,000	59,088	2 175	23,267	65,700	:::
26 Water deliveredacre-feet 27 To farm and residential users onlyorganizations		1,800	42,717	153 2	17,065 5	55,210 3	
acre-feet To farm and residential users and other		1,800	42,717	153	17,065	55,210	
irrigation organizationsorganizations							
Water to farm and residential usersacre-feet Water to other irrigation organizationsacre-feet							
To other irrigation organizations onlyorganizations acre-feet		:::	:::	:::	:::		:::
No water conveyed	1			2		•••	•••
35 Organizations reporting NO water from other sources used							
on land served by the organizationorganizations acres served	54 32,671	50 69,679	24 359,194	19,042	139 125,180	231,501	121,417
acres irrigated	13,953	54,453	260,623	16,618	116,086	208,889	107,502
Organizations reporting water from other sources used on land served by the organizationorganizations	. 5	14	4	4	16	3	
acres served acres irrigated	2,795 930	16,632 10,822	36,627 27,952	1,250 700	14,171 11,933	13,400 12,900	
NEW CAPITAL INVESTMENT, 1950-1959							
41 Expenditures for additional new works and equipment for irrigation and drainage, January 1, 1950-becember 31, 1959organizations							
January 1, 1950-December 31, 1959organizations dollars	30 35,290	30 252 , 342	18 19,359,211	50,240	107 348,810	1,415,631	122,401
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959					155		,
43 Total entering conveyance systems in basinorganizations 44 asre-feet 45 From another drainage basinorganizations	59 26,085	64 177,982	30 888,294	86 43,636	155 542,358	1,031,785	680,597
A6				216	2,570		
47 From Drainage Basin number. D. 8. No	59	63	28	83	149	43	
49 acre-feet	26,085	177,982 62	888,294	43,420 82	539,788	1,031,785	680,597 4
50 Surface water. organizations. 51 acre-feet. 52 Ground water. organizations.	26,085	175,434	877,044	42,908	539,188	1,031,785	680,597
52 Ground waver. Recre-feet acre-feet 64 From other organizations in the basin		2,548	11,250	512 4	600		:::
55 acre-/eet	50	3,430	59,088	3,425 86	26,267 155	74,625 46	
56 Total leaving conveyance systems. .organizations. 57 scre-feet. 58 Conveyance loss in basin. .organizations.	26,085	179,412	886, 364	47,061 80	565,700	1,048,318	637,297
59 acre-feet	4,333	61 41,361	27 241,021	6,052	93,498	258,617	136,793
60 Conveyed to another drainage basinorganizations 80 acre-feet	:::	:::	:::		:::	:::	100,000
62 To drainage basin number	59	64	28	86	155	46	4
64 acre-feet 65 To farm irrigation water usersorganizations	21,752	138,051 64	645,843 28	41,009 86	472,202 155	789,701 46	400,504
66 acre-feet 67 To residential water usersorganizations	21,585	137,914	627,511	40,912	470,775	772,628	399,004 1
68 acre-feet	167	82	6,285 5	87 1	1,427	17,073	500 1
70 acre-feet		55	12,047	10	i		1,000
71 Pelivered to other impation organizations	50	2,000	60,518		2,925	58,092	43,300
AVERAGE DELIVERY OF IRRIGATION WATER PER ACRE, 1959							
Per scre irrigated, as reported by irrigation organization: All organizations	1.5	2.1	2.2	2.4	3.7	3.5	3.7
74 Organizations reporting 80 water from other sources used on land served by the organization	54	50	24	81	139	44	4.0
75 acre-feet	1.4	1.9	2.2	2.4	3.7	3.4	4.0

^{*}Water was transferred to the basin and released to natural stream channels in excess of the quantity of surface water withdrawn by irrigation organisations. The nat effect was to increase the available surface water supply in the basin or State.

State Table 5.—NUMBER OF IRRIGATION ORGANIZATIONS, TYPE OF SERVICE, NEW CAPITAL INVESTMENT, AND WATER CONVEYED, BY SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUS OF 1959—Continued

		Missouri River Headwaters	above Three Forks, Montana	
Item (For definitions and explanations, see text)		(VI-H)	
(For derinitions and explanations, see text)		Size of organization, h	by total water conveyed	
	0-999 acre-feet	1,000-9,999 Acre-feet	10,000-99,999 acre-feet	100,000 or more acre-feet
Number of organizationsorganizations	80	183	42	
All water directly from surface and ground sourcesorganizations	75	172	40	
Total water conveyed	40,353	610.212	902,127	
To farm and residential users onlyorganizations	33,563 75	496,118 168	645,928 36	
To farm and residential users and other	33,563	471,209	558,963	
irrigation organizationsorganizations Water to farm and residential usersacre-feet	•••	4 14,596	11,475	
Water to farm and residential users		10,313	75,490	
acre-feet		:::	:::	
Part of water from other organizationsorganizations	1,422	18,385	:::	
Total water conveyed	·	14,135 4,250		
From other irrigation organizatiousacre-feet Water deliveredacre-feet	1,422 1,360	4,250 14,087	:::	
To farm and residential users onlyorganizations acre-feet	1,360	3 6,887	:::1	
To farm and residential users and other irrigation organizationsorganizations		1		
Water to farm and residential usersacre-feet Water to other irrigation organizationsacre-feet		3,300		
To other irrigation organizations onlyorganizations	•••	3,900	:::	
acre-feet Ul of water from other organizationsorganizations				
Total water conveyed	133	27,498	56,400	
To farm and residential users onlyorganizations	120	22,880 7	33,840	
To farm and residential users and other	120	22,880	33,840	
irrigation organizationsorganizations	•••	•••	:::	
Water to farm and residential users	•••			
acre-feet			:::	
No water conveyedorganizations	2			
WATER FROM OTHER SOURCES				
Organizations reporting NO water from other sources used on land served by the organizationorganizations	58	106	25	
acres served acres irrigated	14,039 10,355	77,882 63,771	82,671 74,188	
Organizations reporting water from other sources used		,		
on land served by the organizationorganizations acres served	20 5,328	77 71,108	16 61,949	
acres irrigated	3,933	54,705	58,181	
NEW CAPITAL INVESTMENT, 1950-1959 Expenditures for additional new works and				
equipment for irrigation and drainage, January 1, 1950-December 31, 1959organizations	21	81	22	
dollars	25,677	280,913	133,690	
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959	Δ.			
Notal entering conveyance systems in basinorganizations acre-feet	78 40,353	183 624,347	902,127	
Prom another drainage basinorganizations acre-feet	•••	•••	:::	
From Drainage Basin number	75	176	40	
acre-feet Surface waterorganizations.	40,353 75	624,347 173	902,127	
acre-feet	40,353	616,710	892,677	
Ground waterorganizations acre-feet	:::	7,637	9,450	
From other organizations in the basin	3 1,555	11 31,748	2 56,400	
Total leaving conveyance systemsorganizations	78	183	42	
Conveyance loss in basinorganizations	41,908 73	641,882 181	883,037 39	
acre-feet Conveyed to another drainage basinorganizations	6,865	123,010	278,759	
To drainage basin number		•••		
Delivered for use in the basin	78	182	41	
To farm irrigation water usersorganizations	35,043 78	518,872 182	604,278	
acre-feet To residential water usersorganizations	35,043	513,232 3	604,278	
acre-feet For other useorganizations	:::	5,640	:::]	
acre-feet	:::		::;	
Delivered to other urngation organizations organizations delivering	:	5 14,213	75,490	
AVERAGE DELIVERY OF IRRIGATION WATER PER ACRE, 1959				
Per acre irrigated, as reported by irrigation organization: All organizationsacre-feet	2.5	4.3	4.5	
Organizations reporting NO water from other sources used	58	106	25	
on land served by the organizationorganizations acre-feet	58 2.5	106	23.8	

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State Table 1.-NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950

-				b	Missouri River e	excluding Platt	e River (VI-C)		
		l.				Kansas River			
	Item (For definitions and explanations, see text)	The State	Total	Missouri River direct	Total	Kansas River direct	Republican River	Niobrara River and White River	Cheyenne River direct (Hat Creek)
				(la)		(2a)	(2b, c, d)	(3, 4)	(5a)
1 2	Total acres irrigated in Census year1959	2,077,926 887,239	799,311 125,192	10,000 369	725,000 91,398	541,000 57,717	184,000 33,681	61,000 29,092	3,000 4,333
3 4	Irrigation organizationsorganizations 1959 1949	68 68	11 9	:::	7 5		7 5	4 4	
5	Service area, 1959: Farm area reported served by organizationsacres 1959	858,969	93,659		73,631		73,631	20,028	
6	Farm area reported irrigated by organizationsacres 1959	706,339	81,844	•••	62,578		62,578	19,266	
7	Water users served, totalwater users 1959	9,259	1,049		899		899	150	
8	Farm irrigation water users water users 1959	9,225	1,049		899		899	150	
9	Residential water userswater users 1959	34							
10	Other water userswater users 1959								
	LAND IRRIGATED BY SOURCE OF WATER, 1959	2 445 000	667,000	9,000	626,000	516,000	110,000	32,000	
11	Ground water sourcesacres	1,445,029 632,897	132,000	1,000	99,000	25,000	74,000	29,000	3,000
12	Surface water sourcesacres	632,077	132,000	1,000	99,000	25,000	74,000	27,000	2,000
13	WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959 Total entering conveyance systems in						_		
14	basinorganizationsacre-feet	2,006,735	210,242	:::	176,584	:::	176,584	33,658	
15 16	From another drainage basinorganizations acre-feet	550,515	10,032	:::	10,032		10,032	:::	•••
17	From drainage basin number								•••
18 19	From natural sources within basinorganizations acre-feet	1,456,220	200,210	:::	166,552		166,552	33,658	
20 21	Surface waterorganizations acre-feet	1,452,443	200,210		166,552		166,552	33,658	
22 23	Ground waterorganizations acre-fect	3,777	• • • • • • • • • • • • • • • • • • • •		:::	:::	:::	:::	
24 25	From other organizations in the basinorganizations receiving	87,111	1 31,047		31,047	:::	31,047	:::	
26 27	Total leaving conveyance systemsorganizations acre-feet	68 2,006,735	11 210,242		7 176,584		7 176,584	33,658	:::
28 29	Conveyance loss in basinorganizations acre-feet	879,994	10 54,237	:::	46,815	:::	46,815	7,422	
30 31	Conveyed to another drainage basinorganizations acre-feet	31,047	31,047		31,047		31,047		
32	To drainage basin number								
33 34	Delivered for use in the basinorganizations acre-feet	66 1,095,694	10 124,958	:::	98,722		98 ,72 2	26,236	•••
35 36	To farm irrigation water usersorganizations acre-feet	66 1,095,537	10 124,958	:::	98,722		98,722	26,236	
37 38	To residential water usersorganizations acre-feet	157	:::		:::	:::		:::	
39 40	For other useorganizationsacre-feet		:::	:::	:::			:::	•••
41 42	Pelivered to other impation organizations	4 87,111	1 31,047	:::	1 31,047		1 31,047		
43		1.6	1.5		1.6		1,6	1.0	
44	NEW CAPITAL INVESTMENT, 1950-1999 Expanditures for additional new works and equipment for irrigation and drainage, Jan. 1, 1950-Dec. 31, 1999organizationsdollars	43 13,839,550	8 4,684,898		5 4,603,897		5 4,603,897	3 81,001	

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State Table 1.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Continued

				Platte Rive:	r excluding Se	outh Platte R	Lver (VI-D)			
			Ple	itte River dir	ect		North Plett South Pla	e River direc	t including ton Gage	South Platte River
	Item (For definitions and explanations, see text)	Total	Total	Below Duncan	Duncan to North Platte	Loup River	Total	Below Kingsley Dam including South Platte below Paxton Gage	Above Kingsley Dam	(VI-E) shove Gaging Station near Paxton
				(1a)	(1b)	(2)		(3a)	(36)	
2	Total acres irrigated in Census year	1,235,000 726,321	698,000 340,410	102,000 NA	596,000 NA	188,000 55,179	349,000 330,732	48,000 38,165	301,000 292,567	44,000 35, 72 6
3 4	Irrigation organizationsorganizations 1959 1949	52 54	9	NA.	9 NA	4 3	39 42	7 8	32 34	5 5
5	Service area, 1959: Farm area reported served by organizationsacres 1959	745,624	286,834		286,834	67,622	391,168	45,216	345,952	19,686
6	Farm area reported irrigated by organizationsacres 1959	606,220	187,932		187,932	45,274	373,014	43,889	329,125	18.275
7	Water users served, totalwater users 1959	8,045	2,436		2,436	868	4,741	471	4,270	165
8	Farma irrigation water userswater users 1959	8,011	2,436		2,436	868	4,707	471	4,236	165
9	Residential water userswater users 1959	34					34		34	
10	Other water users									
	LAND IRRIGATED BY SOURCE OF WATER, 1959	743,000	562,000	97,000	465,000	127,000	54,000	15,000	39,000	35,000
11	Ground water sources	492,000	136,000	5,000	131,000	61,000	295,000	33,000	262,000	9,000
	WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959			,,,,,,		,			,	,,,,,,
13 14	Total entering conveyance systems in basin	52 1,766,267	9 475,919	:	9 475,919	104,505	39 1,185,843	7	32 1,084,163	5 30 ,2 26
15 16	From another drainage basinorganizations acre-feet	536,991					2 536,991		536,991	3,492
17	From drainage basin numberD. B. No								VI-D-3b	
18 19	From natural sources within basinorganizations acre-feet	1,229,276	9 475,919		9 475,919	3 104,505	37 648,852	7	30 547,172	26,734
20 21	Surface waterorganizations acre-feet	1,225,499	9 472,142		9 472,142	3 104,505	37 648,852	7 101,680	30 547,172	26,734
22 23	Ground waterorganizations acre-feet	3,777	3,777		3,777					
24 25	From other organizations in the basin,	3 56,064	:::			10,378	2 45,686		2 45,686	
26 27	Total leaving conveyance systemsorganizations acre-feet	52 1,766,267	9 475,919		9 475,919	4 104,505	39 1,185,843	7 101,680	32 1,084,163	5 30,226
28 29	Conveyance loss in basinorganizations acre-feet	52 820,843	9 234,965		9 234,965	49,354	39 536,524	7 34,195	32 502,329	5 4,914
30 31	Conveyed to another drainage basinorganizations acre-feet	:::	:::							
32	To drainage basin numberD. B. No									
33 34	Delivered for use in the basinorganizations acre-feet	945,424	240,954	:.:	9 240,954	55,151	39 649,319	67,485	32 581,834	5 25,312
35 36	To farm irrigation water usersorganizations acre-feet	945,267	240,954	:::	9 240,954	3 55,151	39 649,162	67,485	32 581,677	5 25,312
37 38	To residential water usersorganizations acre-feet	157		:::			1 157		1 157	
39 40	For other useorganizations acre-feet							:::	:::	
41 42	Delivered to other impation organizations	3 56,064				1 10,378	2 45,686		2 45,686	
43	Average delivery of irrigation water per acre irrigated as reported by organizationsacre-feet	1.6	1.3		1.3	1.2	1.7	1.5	1.8	1.4
44	NEW CAPITAL INVESTMENT, 1950-1959 Expanditures for additional new works and equipment for frigation and drainage, Jan. 1, 1950-Dec. 31, 1959	31 9,135,552	4 1,152,625		1,152,625	3 5,802,632	24 2,180,295	5. 56,780	19 2,123,515	19,100

State Table 2.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950

Item (For definitions and explanations, see text)	Nebraska, total	Item (For definitions and explanations, see text)	Nebraska, total
Irrigation organizations, total numberorganizations 1959	68	TYPE OF SERVICE, 1959 All water directly from surface and	
Area irrigated as reported by	68	ground water sourcesorganizations	6
organizationsacres 1959	706,339	Total water conveyedacre-feet Water deliveredacre-feet	1,858,91 1,062,43
Farm water users served directlywater users 1959 Total water conveyedacre-feet 1959	508,161 9,225 2,093,846	To farm and residential users onlyorganizations	5
TYPE OF ORGANIZATION		acre-feet To farm and residential users and other	665,78
Mutual:	q	irrigation organizationsorganizations	4
Unincorporatedorganizations 1959	11	Water to farm and residential usersacre-feet	309,53
Farm water users served	(D)	Water to other irrigation organizationsacre-feet	76,73
directlywater users 1959 Total water conveyedacre-feet 1959	(D)	To other irrigation organizations only organizations.	
· · · · · · · · · · · · · · · · · · ·		acre-feet	10,37
Incorporatedorganizations 1959	17 15	Part of water from other	
Farm area irrigated directlyscres 1959	64,742	organizationsorganizations Total water conveyedacre-feet	35,91
Farm water users served directlywater users 1959	791	From surface and ground water	2,57
Total water conveyedscre-feet 1959	166,546	sourcesacre-feet From other irrigation	
Districtorganizations 1959	40	organizationsacre-feet	33,34
Farm area irrigated directlyacres 1959	600,265	Water deliveredacre-feet To farm and residential	3,950
Farm water users served directlywater users 1959	7,861	users onlyorganizations	1,10
Total water conveyedsere-feet 1959	1,844,094	To farm and residential users and other irrigation organizationsorganizations Water to farm and residential	-,
U.S. Bureau of Reclamation; projects and stor- age systems operated by bureauorganizations 1959	***	usersacre-feet	2,85
Farm area irrigated directlyscres 1959	2	Water to other irrigation organizationsacre-feet	
Farm water users served directlyweter users 1959		To other irrigation organizations onlyorganizations	
Total water conveyedacre-feet 1959		acre-feet	
ti o Barra d'Orden d'an annatad		All of water from other	
U. S. Bureau of Reclamation, operated by water users organizations 1959	9	organizationsorganizations Total water conveyedacre-feet	199,01
Farm area irrigated directlyacres 1959	240,028	Water deliveredacre-feet	116,41
Farm water users served directlywater users 1959	3,324	To farm and residential users onlyorganizations	
Total water conveyedacre-feet 1959	822,089	To farm and residential users	116,41
U. S. Bureau of Indian Affairsorganizations 1959		and other irrigation organizationsorganizations	
1949 Farm area irrigated directlyacres 1959		Water to farm residential	••
Farm water users served	***	wsersacre-feet Water to other irrigation	•••
directlywater users 1959 Total water conveyedscre-feet 1959	***	organizationsacre-feet To other irrigation organizations	••
		onlyorganizations	
Commercialorganizations 1959	1		
Farm water users served	(D)	No water conveyedorganizations	••
directlywater users 1959	(D) (D)	WATER FROM OTHER SOURCES	
Total water conveyedacre-feet 1959	(1)	Organizations reporting NO water from other sources used on land served	
Stateorganizations 1959	1	by the organizationorganizations acres served	6 848,10
Farm area irrigated directlyacres 1959	(D)	acres irrigated	687,08
Farm water users served directlywater users 1959 Total water conveyedacre-feet 1959	(D) (D)	Water delivered to farmsacre-feet acre-feet per acre	1,059,05
	(5)	Organizations reporting water from other	
Cityorganizations 1959		sources used on land served by the organizationorganizations	
Form area irrigated directlyscres 1959		acres served acres irrigated	44,769 37,839
directlywater users 1959	***	Water delivered to farmsacre-feet	70,39
Total water conveyedacre-feet 1959	•••	acre-feet per acre	1.9

D Data not shown to avoid disclosure of information for individual organizations.

State Table 2.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Continued

Item (For definitions and explanations, see text)	Nebraska, total	Item (For definitions and explanations, see text)	Nebraska, total
WATER DELIVERED PER ACRE		SIZE OF ORGANIZATION—Continued	
rganizations reporting MO water from other sources used on same land:		Size of organization (acre-feet of water delivered directly to farms):	
0.1 to 0.9 acre-feet per acreorganizations acres irrigated	7 142,167	Noneorganizations	
1.0 to 1.9 acre-feet per acreorganizations acres irrigated	24 431,215	1 to 299 acre-feetorganizations	20
2.0 to 2.9 acre-feet per acreorganizations acres irrigated	92,064	300 to 999 acre-feetorganizations	3,17
3.0 to 3.9 acre-feet per acreorganizations acres irrigated	8 17,448		
4.0 to 4.9 acre-feet per acreorganizations acres irrigated 5.0 to 5.9 acre-feet per acreorganizations	4,189	1,000 to 2,999 acre-feetorganizations	22,3
6.0 to 6.9 acre-feet per acreorganizations		3,000 to 9,999 acre-feetorganizations	117,3
acres irrigated 7.0 to 7.9 acre-feet per acreorganizations		10,000 to 29,999 acre-feetorganizations	:
acres irrigated 8.0 to 9.9 acre-feet per acreorganizations		acre-feet 30,000 to 99,999 acre-feetorganizations	392,29
acres irrigated 10.0 or more acre-feet		acre-feet 100,000 or more acre-feetorganizations	335,4
per acreorganizations acres irrigated		size of organization (acre-feet of water	260,25
SIZE OF ORGANIZATION		conveyed): None	
ize of organization (number of farm irrigation water users served directly):		1 to 299 acre-feetorganizations acre-feet	
Noneorganizations 1 to 3organizations	1 6	300 to 999 acre-feetorganizations acre-feet	2,99
water users 4 to 9organizations	16 6	1,000 to 2,999 acre-feetcrganizations	1
water users 10 to 29organizations	36 16	3,000 to 9,999 acre-feet	20,73
**ater users 30 to 99organizations	283 18	acre-feet	85,02
water users 100 to 299organizations	1,129 13	10,000 to 29,999 acre-feetorganizations	
water users 300 to 999	2,052 6 2,943	acre-feet 30,000 to 99,999 acre-feetorganizations	408,98
1,000 or more	2,943 2 3,027	acre-feet 100,000 or more acre-feetorganizations acre-feet	507,00 1,134,92

State Table 3.-LAND IRRIGATED BY SOURCE OF WATER, BY DRAINAGE BASINS: CENSUS OF 1959

Nebracka, total	Item (For definitions and explanations, see text)	Nebraska, total	Item (For definitions and explanations, see text)
	LAND IRRIGATED, BY SOURCE OF WATER TO INDIVIDUAL FARMS, 1959—Continued	18,936	Total acres irrigatedfarms reporting
1,70	Surface sources on farm	2,077,926	acres
99,13	acres	3,755	Acres irrigated by sprinklersfarms reporting
1,08	Surface sources on farm onlyfarms reporting	226,468	acres
69,77	acres	·	
4,84	Irrigation organization sourcesfarms reporting	2,005	Sprinklers onlyfarms reporting
533,76	acres	157,329	acres
3,70	Irrigation organizations sources only		LAND IRRIGATED, BY SOURCE OF WATER TO INDIVIDUAL
416,84	acres		FARMS, 1959
,	Both farm ground water sources	14,093	Ground water sources on farmfarms reporting
54	and surface sourcesfarms reporting	1,445,029	acres
72,25	Both irrigation organization and farm ground		
1,14	water or farm surface sourcesfarms reporting	12,461	Ground water sources on farm onlyfarms reporting
214,71	acres	1,304,336	acres

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950

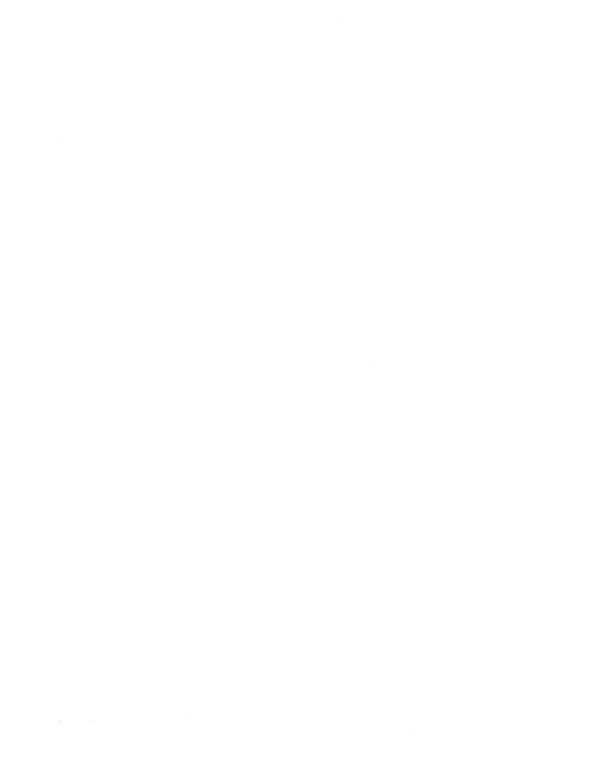
				Nebraska, total			
Item		Mut	ual		U. S. Bureau	of Reclamation	
(For definitions and explanations, see text)	All types	Unincorporated	Incorporated	District	Projects and storage systems operated by bureau	Operated by	Commercial, Indian, State, city, and other
Irrigation organizationsorganizations 1959	68 68	9	17 15	40 39		9	2
Service area, 1959: Area served, as reported by organizations	858,969	(D)	105,816	703,846		252,723	(D)
by organizations	706,339 9,259 9,225 34	(D) (D) (D)	64,742 825 791 34	600,265 7,861 7,861		240,028 3,324 3,324 	(D) (D) (D)
TYPE OF SERVICE, 1999 All water directly from surface and ground water sources organisations	1,858,915 1,062,435 57 665,788	8 (D) (D) 8 (D)	16 163,054 115,385 16 115,385	36 1,614,035 895,836 31 499,189	:::	602,408 295,522 3 76,498	2 (D) (D)
To farm and residential users and other irrigation organizationsorganizations Water to farm and residential	4			477,107		70,470	
water to other irrigation	309,536			309,536		177,599	
organizationsacre-feet To other irrigation organizations onlyorganizations	76,733		•••	76,733		31,047	
Part of water from other organizationsorganizations Total water conveyed	10,378 3 35,919	1 (D)	1 3,492	10,378 1 31,047		10,378 1 31,047	
From surface and ground water sourcesacre-feet From other irrigation organizationsacre-feet	2,577 33,342	(D) (D)	1,397 2,095	31,047	:::	31,047	
Water delivered	3,956	(D)	2,852	1		1	
acre-feet To farm and residential users and other irrigation organizationsorganizations	1,104	(D)					
Water to farm and residential usersacre-feet Water to other irrigation	2,852		2,852				
organizationsacre-feet To other irrigation organizations onlyorganizations							
All of water from other organizationsorganizations Total water conveyed	199,012 116,414	···	:::	199,012 116,414	:::	188,634 107,842	:::
onlyorganizations acre-feet To farm and residential users and other	116,414	:::	•••	116,414	:::	107,842	
irrigation organizationsorganizations Water to farm and residential usersacre-feet							
Water to other irrigation organizationsacre-feet							
To other irrigation organizations onlyorganizations acre-feet No water conveyedorganizations		:::	:::	:::			
WATER FROM OTHER SOURCES Organizations reporting no water from other sources used on the land served by the							
organizationorganizations	62 848,109 687,083 1,059,054 1.5	(D) (D) (D) (D)	15 97,391 56,925 106,912 1.9	38 730,174 611,267 923,393 1.5		7 252,723 240,028 361,939 1.5	1 (D) (D) (D) (D)
Organizations reporting water from other sources used on land served by the organization. acres served. acres irrigated. water delivered to farms (acre-feet). acre-feet per sere.	44,769 37,839 70,393 1.9	(D) (D) (D) (D)	9,518 8,910 13,392 1.5	1 6,488 6,488 33,432 5.2		 	(D) (D) (D) (D)
NEW CAPITAL INVESTMENT, 1950-1959 Expenditures for additional new works and equipment for irrigation and drainage. January 1, 1950-becember 31, 1999	43 10,396,739 3,442,811	 (D)	10 48,841	26 10,396,739 3,369,120	:::	8 10,396,739 2,005,923	2 (D)

				Nebraska, total			
Item		Mut	ual		U. S. Bureau o	f Reclamation	Commercial.
(For definitions and explanations, see text)	All types	Unincorporated	Incorporated	District	Projects and storage systems operated by bureau	Operated by water users	Indian, State, city, and other
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959							-
Total entering conveyance systemsorganizations acre-feet	2,006,735	9 (D)	17 166,546	40 1,757,183	:::	745,556	(D)
From another drainage basinorganizations acre-feet From drainage basin	550,515 		13,524 	536,991 	:::	536,991 	
From sources within basinorganizations	62	9	15	36	·	6	2
acre-feet Surface waterorganizations	1,456,220	(D)	153,022	1,220,192 36	:::	208,565	(D) 2
acre-feet Ground waterorganizations	1,452,443	(D)	153,022	1,216,415	:::	208,565	(D)
acre-feet	3,777	:::	:::	3,777	:::		:::
From other organizations in the basin organizations receiving	87,111	(D)	:::	3 86,911	:::	76,533	:::
Total leaving conveyance systemsorganizations acre-feet	68 2,006,735	9 (D)	17 166,546	40 1,756,983	:::	780,664	(D)
Conveyance loss in basinorganizations acre-feet	67 879,994	9 (D)	17 48,309	39 800 ,7 97	:::	8 387,678	(D)
Conveyed to another drainage basinorganizations acre-feet	31,047			31,047	:::	31,047	:::
To drainage basin numberD. B. No	31,047	:::	•••	31,047	:::	51,047	:::
Delivered for use in the basinorganizations	66	9	17	38 925,139		7 361,939	2 (D)
acre-feet To farm irrigation water usersorganizations	1,095,694 66	(D)	118,237 17	38	:::	7	2
acre-feet To domestic water usersorganizations	1,095,537	(D)	118,080 1	925,139	:::	361,939	(D)
acre-feet For other useorganizations. acre-feet	157		157		:::	•••	
Delivered to other trigation organizations delivering organizations delivering acre-feet	4 87,111	:::	:::	87,111	:::	2 41,425	:::
SIZE OF ORGANIZATION, 1959							
Size of organization (number of farm irrigation water users): organizations 1 to 3 water users. organizations 1 to 5 water users. organizations 10 to 29 water users. organizations 10 to 29 water users. organizations 10 to 99 water users. organizations 100 to 299 water users. organizations 00 to 99 water users. organizations	1 6 6 16 18 13	(D) (D) (D) (D) (D) (D) (D)	 2 2 7 3 3	1 1 7 14 10 5		1 1 3 3	(D) (D) (D) (D) (D) (D) (D)
1,000 or more water usersorganizations Size of organization (acre-feet of water	2	(D)	•••	2		1	(b)
delivered directly to farms): None organizations. 1 to 299 scre-feet organizations. 300 to 999 scre-feet organizations. 1,000 to 2,999 scre-feet organizations. 1,000 to 2,999 scre-feet organizations. 10,000 to 29,999 scre-feet organizations. 30,000 to 99,999 scre-feet organizations. 30,000 to 99,999 scre-feet organizations. 30,000 to 99,999 scre-feet organizations. 30,000 to 99,999 scre-feet organizations.	1 1 5 14 18 21 6 2	(D) (D) (D) (D) (D) (D) (D)	 1 3 5 5 2 1	1 4 11 17 5	 	 1 5 2 1	(D) (D) (D) (D) (D) (D) (D)
Size of organization (scre-feet of water conveyed):	1 4 12 14 22 10	(D) (D) (D) (D) (D) (D) (D)	 1 2 5 2 5 2	2 10 16 7	 	 3 4 2	(D) (D) (D) (D) (D) (D) (D)

D Data not shown to avoid disclosure of information for individual organizations.

State Table 5.-NUMBER OF IRRIGATION ORGANIZATIONS, TYPE OF SERVICE, NEW CAPITAL INVESTMENT, AND WATER CONVEYED, BY SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUS OF 1959

	Iten		Nebraska	, total	
ľ	(For definitions and explanations, see text)		Size of organization, b	y total water conveyed	
		0-999 acre-feet	1,000-9,999 acre-feet	10,000-99,999 acre-feet	100,000 or more acre-feet
1	Number of organizationsorganizations	5	26	32	5
2	TYPE OF SERVICE All water directly from surface and ground sourcesorganizations	5	25	28	4
3	Total water conveyed	3,289 2,749	104,386 81,507	792,857 551,966	958,383 426,213
5	To farm and residential users onlyorganizations acre-feet	2,749	25 81,507	25 447,464	134,068
7	To farm and residential users and other irrigation organizationsorganizations			2	2
3	Water to farm and residential usersacre-feet Water to other irrigation organizationsscre-feet		•••	62,877 31,247	246,659 45,486
1	To other irrigation organizations onlyorganizations scre-feet		•••	10,378	
2	Part of water from other organizations		1,380	2 34,539	
5	From surface and ground water sources acre-feet. From other irrigation organizations acre-feet.		1,180 200	1,397 33,142	
5	Water delivered		1,104	2,852	
7 8	To farm and residential users and other		1,104		
	irrigation organizationsorganizations Water to farm and residential usersacre-feet			2,852	
ıl	Water to other irrigation organizationsacre-feet To other irrigation organizations onlyorganizations		•••		
3	acre-feet	•••			***
5	All of water from other organizationsorganizations. Total water conveyed			2 55,864	1 143,148
6 7 8	To farm and residential users onlyorganizations	:::		32,052 2	84,362
9	To farm and residential users and other	•••		32,052	84,362
0	irrigation organizationsorganizations Water to farm and residential usersacre-feet	:::		:::	•••
2 3	Water to other irrigation organizationsacre-feet To other irrigation organizations onlyorganizations	:::		:::	•••
- 1	No water conveyedorganizetions	***	•••		•••
	WATER FROM OTHER SOURCES				
5	Organizations reporting NO water from other sources used on land served by the organizationorganizations	5	25	27	5
6	scres served	6,550 4,325	54,533 45,277	443,809 295,017	343,217 342,464
в	Organizations reporting water from other sources used on land served by the organizationorganizations		1	4	
9	acres served		441 441	44,328 37,398	
1	NEW CAPITAL INVESTMENT, 1950-1959				
1	Expenditures for additional new works and equipment for irrigation and drainage,		13	25	2
2	January 1, 1950-December 31, 1959organizations	7,639	62,699	10,689,477	3,079,735
3	WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959	5	26	32	5
4 I	Total entering conveyance systems in basinorganizations acre-feet From another drainage basinorganizations	3,289	105,566	796,349	1,101,531
5	From Drainage Basin number D. B. No		:::	13,524	536,991
8 9 0 1	From natural sources within basinorganizations acre-feet	5 3,289	26 105,566	27 782,825	564 , 540
0	Surface waterorganizations	5 3,289	26 105,566	27 782,825	560,763
2	Ground waterorganizations		·		3,777
4	From other organizations in the basin organizations receiving	•••	1 200	3 86,911	***
	Total leaving conveyance systemsorganizations	5 3,289	26 105,766	32 841,635	5 1,056,045
6 7 8	acre-feet Conveyance loss in basinorganizations acre-feet	3,289 5 540	26 23,155	31 265,343	590,956
9	Conveyed to another drainage basinarre-feet	•••	23,155	1 31,047	
2	To drainage basin number		26	31,047	
2 3 4 5	Delivered for use in the basinorganizations acre-fect To farm irrigation water usersorganizations	2,749	82,611	545,245	465,089
6	To residential water users	2,749	82,611	545,088	465,089
8	For other use	•••		157	
0	Pelivered to other irrigation organisationsorganisations delivering.	•••			
2	acre-feet	:::	:::	41,625	45,486
	AVERAGE DELIVERY OF IRRIGATION WATER PER ACRE, 1959 Per acre irrigated, as reported by irrigation organization:				
	All organizationsacre-feet	0.6	1.8	1.7	1.4
13	Organizations reporting no water from other sources used			1	



NEVADA

(235)

State Table 1.-NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS,

_								Humboldt R	iver (III-B)		
	Item (For definitions and explanations, see text)	The State	North Pacific Coast, total	Snake River Weiser, Idaho to American Falls and Northwest Great Basin	Great Basin, total	Total	Humboldt River direct, Little Humboldt and Reese Rivers	Pine Creek	South Fork	North Fork	Lamoille Creek
				(I-F, I-G, and III-A)			(1, 2, 3)	(4)	(5)	(6)	(7)
1 2	Total acres irrigated in Census year1959	542,976 722,896	30,000 40,904	54,000 74,360	487,000 648,913	129,000 248,840	101,000 168,438	3,000 9,829	8,000 32,123	7,000 11,223	10,000 27,227
3 4	Irrigation organizationsorganizations 1959 1949	116 157	1 2	3 4	103 141	13 32	7 18		4 10		3 4
5	Service area, 1959: Farm area reported served by organizations	312,290	(D)	9,800	292,403	55,844	47,447		7,360		1,037
6	Farm area reported irrigated by organizationsacres 1959	263,005	(D)	7,465	243,118	39,088	34,602		4,054		432
7	Water users served, totalwater users 1959	3,059	25	68	2,566	183	148		29		6
8	Farm irrigation water userswater users 1959	2,646	25	68	2,344	183	148		29		6
9	Residential water userswater users 1959	408			219						
10	Other water userswater users 1959	5			3						
	LAND IRRIGATED BY SOURCE OF WATER, 1959										
11	Ground water sourcesacres	103,000	3,000	12,000	86,000	31,000	28,000	2,000	1,000		
12	Surface water sources	440,000	27,000	42,000	401,000	98,000	73,000	1,000	7,000	7,000	10,000
13 14	Total entering conveyance systems in basin	115 1,068,254	1 (D)	3 19,930	102 975,010	13 113,426	7 103,184		4 9,154	• • • • • • • • • • • • • • • • • • • •	3 1,695
15 16	From another drainage hasinorganizations acre-feet	11,240		:::	3,300		1 607				:::
17	From drainage basin numberD. B. No						III-B-7				
18 19	From natural sources within basinorganizations acre-feet	87 1,057,014	(D)	3 19,930	75 971,710	13 113,426	102,577	:	9,154	:.:	3 1,695
20 21	Surface waterorganizations acre-feet	81 1,026,055	(D)	19,930	73 953,350	13 113,426	102,577		9,154		1,695
22 23	Ground waterorganizations acre-feet	30,959	:::		3 18,360		:::		• • •		:::
24 25	From other organizations in the basin	27 189,781			26 188,071						
26 27	Total leaving conveyance systemsorganizations	115 1,068,254	(D)	3 19,930	102 975,010	13 113,426	7 103,184		9,154		3 1,695
28 29	Conveyance loss in basinorganizations acre-feet	107 206,933	(D)	3 882	96 200,566	11 28,578	26,272		2,218		2 88
30 31	Conveyed to another drainage basinorganizations acre-feet	25,999	1 (D)	10,000	1 15,999			:			607
32	To drainage basin numberD. B. No										III-E-le
33 34	Delivered for use in the basinorganizations acre-feet	113 835,322	1 (D)	3 9,048	100 758,445	13 84,848	7 76,912		6,936	:::	1,000
35 36	To farm irrigation water usersorganizations acre-feet	113 824,592	1 (D)	9,048	100 749,557	13 84,848	76,912	:::	6,936		1,000
37 38	To residential water usersorganizations acre-feet	1,899			8 657					:::	:::
39 40	For other useorganizations acre-feet	8,831			8,231	:			:::	:::	
41 42	Delivered to other i rr gation organizations organizations delivering	3 189,781			188,071			:::	:::	:::	
43	Average delivery of irrigation water per acre irrigated as reported by organizationsacre-feet	3.1	(D)	1.2	3.1	2.1	2.2		1.7		2.3
44	NEW CAPITAL INVESTMENT, 1950-1959 Expenditures for additional new works and equipment for irrigation and drainage, Jan. 1, 1950-pec. 31, 1959	1,059,001	1 (D)	46,500	45 651,549	2 119,000	89,000		1 30,000		

1202,637 acre-feet from D. B. No. III-C-2a.

BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950

										- T	- T		
otal	Honey Lake	Truckee River	Carson River and Railroad, Steptoe, and Goshute Valleys	Total	Lower Walker River and Walker Lake	West Walker and East Walker Rivers	Dixie, Smith Creek, and Fish Lake Valleys	Big Smoky Valley	Southwest Desert	Ralston, Monitor, and Hot Creek Valleys	Ruby Valley	Clover Valley	Spring Valley
	(1)	(2)	(3, 12, 16)		(4a)	(4b, c)	(6)	(7)	(8)	(11)	(14)	(15)	(17)
326,000 354,541	1,000 684	62,000 39,282	155,000 166,668	70,000 82,706	52,000 49.843	18,000	6,000	2,000	7,000	1,000	8,000	7,000 9,990	7,000 14,779
85		27	30	32	19	32,863	6,946	6,457	3,430	4,566	19,033	9,990	14,77
104		29	45	31	16	17							
230,536		35,085	107,314	88,137	60,019	28,118							
200,342		33,359	91,774	75,209	51,695	23,514							
2,329		952	1,036	341	268	73							
2,107		758	1,009	340	267	73							
219	• • •	193	25	1	1		•••						
3	• • •	1	2						•••				
44,000		13,000	16,000	2,000	1,000	1,000	2,000	1,000	7,000		1,000	1,000	1,0
282,000	1,000	49,000	139,000	68,000	51,000	17,000	4,000	1,000		1,000	7,000	6,000	6,0
84		26	30	32	19	13							
838,386		386,983	420,620	233,410	157,596	93,508							
3,300		• • • •	205,937	• • •	17,694			:::	1111	:::	:::		:
57		26	(1) 29		III-C-4e								
835,086		386,983	214,693	233,410	139,902	93,508							
832,056		26 386,743	28 211,903	233,410	139,902	93,508	:::	:::	:::	:::			:
3,030	:::	1 240	2,790	• • • • • • • • • • • • • • • • • • • •	:::		:::	:::	:::	:::	:::	:::	
26 188,071				26 188,071	17 124,782	9 63 , 289							:
84		26 386,983	30 420,620	32 233,410	19 157,596	13 93,508							
81 170,789	:::	26 54,489	27 94,968	30 21,332	18 13,714	7,618							:
		202,637		•••		1 17,694							
		111-C-3b				III-C-4a							
83 667,597		26 129,857	29 325,662	30 212,078	18 143,882	12 68,196				:::			
83 658,709		26 128,278	29 318,356	30 212,075	18 143,879	12 68,196		•••					
8		6	1 75	1 3	1 1 3								
8,231		1 1,000	7,231				:::	•••					
2				2	2	1							
188,071	***	3.8	3.5	188,071	124,782	63,289							
		3.0	,,,,	0	1			•••			•••		
42 531,549		12 99,051	10 205,880	21 226,618	13 33,912	8 192,706							

State Table 1.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Continued

				Colorado River be	elow Lees Ferry ex	cluding Gila Rive	er (IV-B)	
						Virgin	River	
	Item (For definitions and explanations, see text)	Bonneville Basin (III-D)	Total	Colorado River direct	Total	Direct	Moddy River and Pahranagat Valley	White River
				(1b)		(3a)	(3b, e)	(3d)
2	Total acres irrigated in Census year1959 1949	8,000 12,076	26,000 33,079	5,000 2,731	21,000 30,348	2,000 2,294	11,000 16,493	8,000 11,561
3	Irrigation organizationsorganizations 1959 1949	3	12 14		12 14	3	5 7	4
5	Service area, 1959: Farm area reported served by organizationsacres 1959	2,223	13,887		13,887	2,870	5,680	5,337
6	Farm area reported irrigated by organizatiousacres 1959	2,223	13,887		13,887	2,870	5,680	5,337
7	Water users served, totalwater users 1959	11	468		468	101	315	52
8	Farm irrigation water userswater users 1959	11	277		277	101	124	52
9	Residential water userswater users 1959		189		189		189	
10	Other water userswater users 1959		2		2		2	
	LAND IRRIGATED BY SOURCE OF WATER, 1959					!		
11	Cround water sourcesacres	2,000	14,000	3,000	11,000	1,000	4,000	6,000
12	Surface water sourcesacres	6,000	12,000	2,000	10,000	1,000	7,000	2,000
13	WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959 Total entering conveyance systems in basin	3 20,268	12 76,244		12 76,244	3 13,345	5 36,447	4 26,452
15 16	From another drainage basinorganizations acre-feet		7,940		7,940	1 7,940 Arizona	:::	:::
17	From drainage basin numberD. B. No				•	IV-B-3a		
18 19	From natural sources within basinorganizations acre-feet	3 20,268	68,304		68,304	5,405	5 36,447	26,452
20 21	Surface waterorganizations acre-feet	2 4,938	55 , 705	:::	7 55,705	5,405	32,120	18,180
22 23 24	Ground waterorganizationsacre-feet	15,330	12,599	:::	12,599	:::	4,327	8,272
25	From other organizations in the basinorganizations receiving		1,710	:::	1,710	1,710	:::	
26 27	Total leaving conveyance systemsorganizations acre-feet	3 20,268	76,244	:::	76,244	13,345	36,447	26,452
28 29	Conveyance loss in basinorganizations acre-feet	2 527	6,157	:::	6,157	2,339	2,911	3 907
30 31	Conveyed to another drainage basinorganizations acre-feet	15,999	•••		:::	::: ;	:::	
32	To drainage basin number							• • • • • • • • • • • • • • • • • • • •
33 34	Delivered for use in the basinorganizations acre-feet	2 3,742	12 70,087	:::	12 70,087	11,006	33,536	25,545
35 36	To farm irrigation water usersorganizations acre-feet	2 3,742	12 68,245		12 68,245	11,006	31,694	25,545
37 38 39	To residential water usersorganizations acre-feet For other useorganizations		1,242	***	1,242	:::	1,242	•••
40	ror other useorgunizations acre-feet Delivered to other impation	•••	600	:::	600	:::	600	
42	organizations	•••	1,710		1,710	1,710	:::	
43	Average delivery of irrigation water per acre irrigated as reported by organizationsacre-feet	1.7	4.9		4.9	3.8	5.6	4.8
44 45	NEW CAPITAL INVESTMENT, 1950-1959 Expanditures for additional new works and equipment for irrigation and drainage, Jan. 1, 1950-bes. 31, 1959	1,000	5 360,952	, :::	5 360,952	85,000	1 235,952	40,000

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State Table 2.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION. BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950

Item (For definitions and explanations, see text)	Nevada, total	Truckee, Careon, and Walker Rivere	Item (For definitions and explanations, see text)	Nevada, total	Truckee, Careon, and Walker Rivers
		(III-C, 2-4)			(III-C, 2-4)
Irrigation organizations, total numberorganizations 1959	116	#3	TYPE OF SERVICE, 1959		
Area irrigated as reported by	157	104	All water directly from surface and ground water sourcesorganizations Total water conveyedacre-feet	88 1,064,385	56 834,486
organizationsacres 1959	263,005 286,299	199,335 219,896	Water deliveredacre-feet	834,106	667,006
Farm water users served directlywater users 1959 Total water conveyedacre-feet 1959	2,621 1,258,035	2,074 1,022,557	To farm and residential users onlyorganizations acre-feet	86	55 468,825
TYPE OF ORGANIZATION			To farm and residential users and other	629,545	400,023
Mutual: Unincorporatedorganizations 1959	61	45	irrigation organizationsorganizations Water to farm and residential	2	1
1949 Farm area irrigated directlyacres 1959	90 49,199	61 40,155	usersacre-feet Water to other irrigation	32,384	27,714
Farm water users served directlywater users 1959	309	254	organizationsacre-feet To other irrigation organizations	172,177	170,467
Total water conveyedacre-feet 1959	151,039	132,446	onlyorganizations acre-feet		
Incorporatedorganizations 1959	42 47	31 30	Part of water from other		
Farm area irrigated directlyacres 1959 Farm water users served	79,179	64,874	organizationsorganizations Total water conveyedacre-feet	5,579	:::
directlywater users 1959 Total water conveyedacre-feet 1959	977 326,731	701 234,960	From surface and ground water sources	3,869	
Districtorganizations 1959	4	3	organizationsacre-feet	1,710	
Farm area irrigated directlyacres 1959	120,327	90,567	Water deliveredacre-feet To farm and residential	4,800	
Farm water users served directlywater users 1959	1,095	981	users onlyorganizations acre-feet	4,800	:::
Total water conveyedacre-feet 1959	718,088	621,088	To farm and residential users and other irrigation organizations organizations ##################################		
U.S. Bureau of Reclamation; projects and stor- age systems operated by bureauorganizations 1959			usersacre-feet Water to other irrigation		
1949 Farm area irrigated directlyacres 1959	:::	:::	organizationsacre-feet To other irrigation organizations		
Farm water users servedwater users 1959 Total water conveyedacre-feet 1959		:::	onlyorganizations		
			All of water from other		
U. S. Bureau of Reclamation; operated by water users	4	3	organizationsorganizations Total water conveyedacre-feet	26 188,071	26 188,071
Farm area irrigated directlyacres 1959	NA 107,655	NA 77,895	Water deliveredacre-feet To farm and residential	177,366	177,366
Farm water users served directlywater users 1959	1,066	952	users onlyorganizations acre-feet	25 159,762	25 159,762
Total water conveyedacre-feet 1959	501,043	404,043	To farm and residential users and other		
U. S. Bureau of Indian Affairsorganizations 1959	8 14	3 8	irrigation organizationsorganizations Water to farm residential		
Farm area irrigated directlyacres 1959 Farm water users served	(D)	(D)	water to other irrigation	•••	
directlywater usera 1959 Total water conveyedacre-feet 1959	(D)	(D)	organizationsacre-feet To other irrigetion organizations		
Commercialorganizations 1959	1	1	onlyorganizations acre-feet	17,604	17,604
Farm area irrigated directlyacres 1959	2 (D)	(D)	No water conveyedorganizations	1	1
Farm water users served directlywater users 1959	(D)	(D)	WATER FROM OTHER SOURCES		
Total water conveyedacre-feet 1959	(D)	(D)	Organizations reporting #00 water from other sources used on land served		
Stateorganizations 1959			by the organizationorganizations acres served acres irrigated	323,174 273,889	230,182 200,228
Farm area irrigated directlyacres 1959 Farm water users served			Water delivered to farmsacre-feet	855,353	660,531
directly water users 1959 Total water conveyedacre-feet 1959	:::		acre-feet per acre	3.1	3.1
Cityorganizations 1959			Organizations reporting water from other sources used on land served by the organization	2	,
Farm area irrigated directlyacres 1959			organizationorganizations acres served acres irrigated	439 439	307
Farm water users served directlywater users 1959			Water delivered to farmsacre-feet	1,370	1,113
Total water conveyedacre-feet 1959			acre-feet per acre	3.1	3.€

D Data not shown to avoid disclosure of information for individual organizations. NA Not available.

State Table 2.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Continued

Item (For definitions and explanations, see text)	Nevada, total	Truckee, Carson, and Walker Rivers	Item (For definitions and explanations, see text)	Nevada, total	Truckee, Carson, and Walker Rivers
		(111-0, 2-4)			(111-0, 2-4)
WATER DELIVERED PER ACRE Organizations reporting 00 water from other source used on same land: 1.0 to 1.9 acre-feet per acreorganizations. 1.0 to 1.9 acre-feet per acreorganizations. 2.0 to 2.9 acre-feet per acreorganizations. 3.0 to 3.9 acre-feet per acreorganizations. 4.0 to 4.9 acre-feet per acreorganizations. 5.0 to 5.9 acre-feet per acreorganizations. 6.0 to 6.9 acre-feet per acreorganizations. 7.0 to 7.9 acre-feet per acreorganizations. 8.0 to 9.9 acre-feet per acreorganizations. acres irrigated. 8.0 to 9.9 acre-feet per acreorganizations. acres irrigated. acres irrigated. 6.0 to 6.9 acre-feet per acreorganizations. acres irrigated. 6.0 to 7.9 acre-feet per acreorganizations. acres irrigated. 6.0 to 9.9 acre-feet per acreorganizations. acres irrigated. 6.0 to 7.9 acre-feet per acreorganizations. acres irrigated. 6.0 to 9.9 acre-feet per acreorganizations. acres irrigated.	2,172 19 43,492 333 80,069 31 120,564 15 12,491 7,000 31,375 5,390 	1 1 588 10 21,704 23 44,240 28 117,704 1 7,002 3 1,375	SIZE OF ORGANIZATION—Continued Size of organization (acre-feet of water delivered directly to farms): Organizations. 1 to 299 acre-feet. Organizations	2 1,032 20 13,805 64,923 307,807 13 218,662 1,71,200 1,279,314	2 4 4 655 12 8,361 29 180,512 9 146,492 279,314
SIZE OF ORGANIZATION Size of organization (number of farm irrigation water users served directly): Organizations. 1 to 3. Organizations. 1 to 3. Organizations. 1 to 3. Organizations. 1 to 3. Organizations. 1 to 5. Organizations. 10 to 29. Organizations. 10 to 29. Organizations. 10 to 299. Organizations. Water users. 100 to 299. Organizations. Water users. 100 to 299. Organizations. Water users. 100 to 299. Organizations. Water users. 100 to 299. Organizations.	2 31 71 42 244 25 440 12 645 3	2 18 40 38 220 15 296 7 369 2	Size of organization (acre-feet of water conveyed): Non	1 6 972 13 8,105 43 77,388 35 219,924	1 3 500 8 4,737 29 51,655 30 194,689
300 to 999. organizations. 1,000 or more organizations. water users	952 	952 	30,000 to 99,999 acre-feetorganizations 100,000 or more acre-feetorganizations acre-feet	97,000 2 605,303	 2 605,303

State Table 3.-LAND IRRIGATED BY SOURCE OF WATER, BY DRAINAGE BASINS: CENSUS OF 1959

Item (For definitions and explanations, see text)	Nevada, total	Item (For definitions and explanations, see text)	Nevada, total
Total acres irrigatedfarms reporting	2,110	LAND IRRIGATED, BY SOURCE OF WATER TO INDIVIDUAL FARMS, 1959—Continued	
acrea	542,976	Surface sources on farmfarms reporting	480
Acres irrigated by sprinklersfarms reporting	91	acres	199,313
acres,	4,473	Surface sources on farm onlyfarms reporting	362
		acres	143,761
Sprinklers onlyfarms reporting	37	Irrigation organization sourcesfarms reporting	1,350
acres	2,015	acres	243,054
TANK TRANSPORT BY COMPANY OF MARTER TO TANKETTANA		Irrigation organizations sources only	1,223
LAND IRRIGATED, BY SOURCE OF WATER TO INVIVIDUAL FARMS, 1959		acres	214,235
Ground water sources on farmfarms reporting	492	Both farm ground water sources	
acres	100,609	and surface sourcesfarms reporting	84
	, ,	Both irrigation organization and farm ground	58,014
Ground water sources on farm onlyfarms reporting	512	water or farm surface acurcesfarms reporting	129
acres	64,995	acres	61,971

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950

				Nevada, total				
Item		Mut	ual		U. S. Bureau	of Reclamation	Commercial,	
(For definitions and explanations, see text)	All types	Unincorporated	Incorporated	District	Projects and storage systems operated by bureau	Operated by water users	Indian, State, city, and other	
Irrigation organizationsorganizations 1959 Service area, 1959:	116 157	6 1 90	42 47	4 4	:::	4 NA	9	
Area served, as reported by organizations	312,290	61,592	84,123	146,117		133,445	20,458	
by organizationsacres	263,005	49,199	79,179	120,327		107,655	14,300	
Water users served, 1959, total. water users. Farm irrigation water users. water users. Residential water users. water users. Other water users. water users.	3,059 2,646 408 5	340 309 30 1	1,357 977 378 2	1,097 1,095 2	:::	1,068 1,066 	265 265	
TYPE OF SERVICE, 1959								
All water directly from surface and ground water sources	88 1,064,385 834,106	50 98,667 86,756	27 202,858 159,320	3 702,303 548,695		501,043 350,514	60,557 39,335	
To farm and residential users and other	629,545	86,756	152,940	350,514		350,514	39,335	
irrigation organizationsorganizations Water to farm and residential usersacre-feet	32,384		4,670	27,714				
Water to other irrigation organizations	172,177		1,710	170,467				
onlyorganizations acre-feet			:::	:::	:::	:::	:::	
Part of water from other organizations organizations Total water conveyed	1 5,579		1 5,579	:::		:::	:::	
sources	3,869 1,710 4,800		3,869 1,710 4,800	:::		:::	:::	
onlyorganizations acre-feet	4,800		4,800		:::	:::		
To farm and residential users and other irrigation organizations organizations Water to farm and residential								
users								
To other irrigation organizations onlyorganizations acre-feet	:::	:::	:::	:::	:::			
All of water from other organizationsorganizations Total water conveyed	26 188,071 177,366	11 52,372 49,344	13 118,294 112,515	15,785 14,207	:::	:::	1,620 1,300	
onlyorganizations acre-feet To farm and residential users and other	25 159,762	11 49,344	94,911	14,207	:::	:::	1,300	
irrigation organizationsorganizations Water to farm and residential users								
Water to other irrigation organizationsacre-feet								
To other irrigation organizations organizations. only. organizations.			1 1 20/					
No water conveyed	17,604	:::	17,604	:::	:::	:::	:::	
Organizations reporting no mater from other sources used on the land served by the organization. organizations acres served. acres irrigated. water delivered to farms (acre-feet).	112 323,174 273,889 855,353	59 62,353 49,960 140,640	40 88,023 83,079 271,442	4 146,117 120,327 392,435		2 133,445 107,655 349,514	26,681 20,523 50,836	
Organizations reporting water from other sources used on land served by the	3.1	2.8	3.3	3.3	:::	2.6	2.5	
organization. organizations area served. scree served. scree irrigated water delivered to farms (sore-feet).	2 439 439 1,370 3.1	2 439 439 1,370 3.1				···	:::	
NEW CAPITAL INVESTMENT, 1950-1959 Expenditures for additional new works and equipment for irrigation and drainage, January 1, 1950-becember 31, 1959	51 1,059,001	22 56,500	22 454,911	4 469,759	:::	305,000	77,831	

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State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

	Nevada, total								
Item (For definitions and explanations, see text)		Mut	cual		U. S. Bureau o	Commercial,			
(Full deliminations and onposition)	All types	Unincorporated	Incorporated	District	Projects and storage systems operated by bureau	Operated by water users	Indian, State, city, and other		
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959									
Total entering conveyance systemsorganizations acre-feet	1 <u>15</u> 1,068,254	61 98,667	20 6, 727	702,303		501,043	9 60 , 557		
From another drainage basinorganizations acre-feet	11,240	3,300	7,940						
From drainage basin,		• • • •	,,,,		:				
From sources within basinorganizations acre-feet Surface waterorganizations	1,057,014	49 95,367	27 198,787	702,303		501,043	60,557		
Surface waterorganizations acre-feet Ground waterorganizations	1,026,055	48 94,055	171,930	702,303	:::	501,043	57,767		
acre-feet	30,959	1,312	26,857		:::		2,790		
From other organizations in the basin organizations receiving acre-feet	27 189,781	11 52,372	14	1 15,785	::: }		1 1,620		
Total leaving conveyance systemsorganizations acre-feet	115 1,068,254	61 151,039	41 307,417	547,621		501,043	62,177		
Conveyance loss in basinorganizations acre-feet	107 206,933	58 14,708	36 34,166	147,186		4 142,529	10,873		
Conveyed to another drainage basinorganizations	2		1			·	1		
To drainage basin numberD. B. No	25,999	:::	15,330	:::	:::		10,669		
Delivered for use in the basinorganizations acre-feet	113 835,322	61	39	4		4	9		
To farm irrigation water usersorganizations acre-feet	113 824,592	136,331 61 136,010	257,921 39 255,512	400,435 4 392,435	:::	358,514 4	40,635		
To domestic water usersorganizations	1,899	1 90	10 1,809	392,435	:::	350,514	40,635		
For other useorganizations acre-feet	8,831	1 231	1 600	8,000	:::	1 8,000			
Delivered to other unigation	•			,,,,,		-,			
organizations delivering organizations delivering acre-feet	189,781		2 19,314	170,467	:::				
SIZE OF ORGANIZATION, 1959									
Size of organization (number of farm irrigation water users). organizations None. organizations 1 to 3 water users. organizations 4 to 9 water users. organizations 30 to 29 water users. organizations 100 to 290 water users. organizations 300 to 990 water users. organizations 300 to 990 water users. organizations 000 to 290 water users. organizations 000 to 200 mater users. organizations	3 31 42 24 12 3 1	1 29 27 4 4 1	2 2 13 18 6 1	 1 2 1		 1	1 2 5		
Size of organization (nore-feet of water delivered directly to farms);	2 7 20 37 35 13 1	6 17 22 16 	2 1 3 10 17 9		:::		 5 2 2		
Size of organization (aere-feet of water conveyed):	1 6 13 43 35 15 1	 6 12 27 16 	1 1 11 17 12	 1 1 2		 1	5 2 2		

NA Not available.

		True	kee River, Carson	River, and Walke	r River (III-C, 2-	-4)		
Item (For definitions and explanations, see text)		Mut	ual		U. S. Bureau	of Reclamation		
in inputation, see that	All types	Unincorporated	Incorporated	District	Projects and storage systems operated by bureau	Operated by water users	Commercial, Indian, State, city, and other	
Irrigation organizationsorganizations 1959	83 104	45 61	31 30	3 3		4 NA	10	
Service area, 1959: Area served, as reported by organizations	229,289	47,365	69,398	106,484		93,812	6,042	
by organizationsacres	199,335	40,155	64,874	90,567		77,895	3,73	
Water users served, 1959, total water users. Farm irrigation water users water users. Residential water users water users. Other water users water users.	2,318 2,096 219 3	285 254 30	890 701 189	983 981 2		954 952 2	160	
TYPE OF SERVICE, 1959								
All water directly from surface and ground water sources	56 834,486 667,006	34 80,074 70,924	17 116,666 94,249	2 605,303 477,495	 	3 404,043 279,314	32,44 24,33	
onlyorganizations acre-feet To farm and residential users and other	55 468,825	70,924	17 94,249	279,314	:::	2 279,314	24,338	
irrigation organizationsorganizations Water to farm and residential	27 77 /			20.77/				
usersacre-feet Water to other irrigation organizationsacre-feet	27,714 170,467			27,714 170,467				
To other irrigation organizations onlyorganizations								
Part of water from other organizations		:::		:::		:::		
sources acre-feet. From other irrigation organizations acre-feet. Water delivered acre-feet. To form and residential users			•••			•••	::	
onlyorganizations							::	
To farm and residential users and other irrigation organizations organizations Water to farm and residential		•••	•••					
water to other irrigation			•••					
organizationsacre-feet To other irrigation organizations onlyorganizations								
acre-feet All of water from other organizationsorganizations Total water conveyed	26 188,071 177,366	11 52,372 49,344	13 118,294 112,515	15,785 14,207			1,620 1,300	
To farm and residential users onlyorganizations acre-feet	25 159,762	11 49,344	12 94,911	14,207			1,300	
To farm and residential users and other irrigation organizationsorganizations Water to farm and residential							·	
users						•••		
organizationsacre-feet To other irrigation organizations				•••		•••	•••	
onlyorganizations acre-feet No water conveyedorganizations	17,604 1	•••	17,604 1		:::			
WATER FROM OTHER SOURCES Organizations reporting no water from other sources used on the land served by the	80	44	29					
organization	230,182 200,228 660,531 3.3	48,258 41,048 125,065	69,398 64,874 188,593	106,484 90,567 321,235		93,812 77,895 279,314	6,042 3,739 25,638 6.9	
Organizations reporting water from other sources used on land served by the organization	1 307	1 307			:::			
acres irrigated water delivered to farms (acre-feet) acre-feet per acre	307 1,113 3.6	307 1,113 3,6				•••		
NEW CAPITAL INVESTMENT, 1950-1959 Expenditures for additional new works and equipment for irrigation and drainage, January 1, 1950-beceaber 31, 1999organizations By U. S. B. B	42 531,549	21 55,500	 93,959	3 380,759	:	216,000	 1,331	

	Truckee River, Carson River, and Walker River (III-C, 2-4)									
Item			tual		U. S. Bureau of Reclamati		on			
(For definitions and explanations, see text)	All types	Unincorporated	Incorporated	District	Projects and storage systems operated by bureau	Operated by	Commercial, Indian, State, city, and other			
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959										
Total entering conveyance systemsorganizations scre-feet	82 834,486	45 80,074	30 116,666	605,303		1 404,043	32,443			
From another drainage basinorganizations	1 3,300	3,300			:::					
From drainage basin	***		•••		:					
From sources within basinorganizations acre-feet	55 831,186	76,774	17 116,666	605,303		1 404,043	3 32,443			
Surface waterorganizations acre-feet	830,946	76,534	17 116,666	605,303	:::	1 404,043	32,443			
Ground waterorganizations acre-feet	1 240	240	:::	:::	:::		:::			
From other organizations in the basin organizations receiving acre-feet	26 188,071	11 52,372	13 118,294	1 15,785	:::		1 1,620			
Total leaving conveyance systemsorganizations acre-feet	82 834,486	45 132,446	30 217,356	3 450,621	:::	1 404,043	4 34,063			
Conveyance loss in basinorganizations	79 169,954	44 11,947	28 28,196	3 121,386		116,729	4 8,425			
Conveyed to another drainage basinorganizations acre-feet										
To drainage basin number					:::					
Delivered for use in the basinorganizations acre-feet	81 664,532	45 120,499	29 189,160	3 329,235		287,314	25,638			
To farm irrigation water usersorganizations acre-feet	81 655,644	45 120,178	29 188,593	3 321,235	:::	279,314	25,638			
To domestic water usersorganizations acre-feet	8 657	1 90	7 567	:::] :::		:::			
For other useorganizations acre-feet	8,231	231	:::	8,000	:::	8,000	:::			
Uelivered to other irrigation organizations delivering	2		1 1	1 1						
acre-feet	188,071	•••	17,604	170,467						
SIZE OF ORGANIZATION, 1959 Size of organization (number of farm										
irrigation water users): Noneorganizations	2 18	.;;	2 2							
1 to 3 water usersorganizations 4 to 9 water usersorganizations	38 15	16 25 3	11 12	"i	:::	:::	"i			
10 to 29 water users	7 2	1	3				3			
300 to 999 water usersorganizations 1,000 or more water usersorganizations	1		:::	1						
Size of organization (acre-feet of water delivered directly to farms):										
Noneorganizations 1 to 299 acre-feetorganizations	2 4		2 1	:::	:::	:::				
300 to 999 acre-feetorganizations 1,000 to 2,999 acre-feetorganizations	12 26	10 17	2 7	:::	:::	:::				
3,000 to 9,999 acre-feetorganizations 10,000 to 29,999 acre-feetorganizations	29 9	15	13 6		:::		1			
30,000 to 99,999 acre-feetorganizations 100,000 or more acre-feetorganizations	 1	:::		''i	:::	"i				
Size of organization (acre-feet of water conveyed):	_		_							
Noneorganizations 1 to 299 acre-feetorganizations	1 3 8	3 7	1	:::	:::		:::			
300 to 999 acre-feetorganizations 1,000 to 2,999 acre-feetorganizations	29	20	7	:::	:::	:::				
3,000 to 9,999 acre-feetorganizations 10,000 to 29,999 acre-feetorganizations	30 10	15	14	"i	:::	:::	1			
30,000 to 99,999 acre-feetorganizations 100,000 or more acre-feetorganizations	2	:::		2	:::	1	:::			
		L	L	L						

NA Not available.

State Table 5.—NUMBER OF IRRIGATION ORGANIZATIONS, TYPE OF SERVICE, NEW CAPITAL INVESTMENT. AND WATER CONVEYED, BY SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUS OF 1959

		Nevada,	total		Truckes	River, Carso River (III	m River, and	Walker	
Item (For definitions and explanations, see text)			Size of or	rganization,	by total water	9,999 or acre-feet acre-fe			
	0-999 acre-feet	1,000- 9,999 acre-feet	10,000- 99,999 acre-feet	100,000 or more acre-feet	0-999 acre-feet	9,999	99,999	100,000 or more acre-feet	
Number of organizations	20	78	18		12		10		
All water directly from surface and ground sourcesorganizations	19	56	13		,,	30	5		
Total water conveyedacre-feet Water deliveredacre-feet	9,077 7,799	178,734 153,706	876,574 672,601		5,237	133,345	90,601	605,2 477,4	
To farm and residential users onlyorganizations acre-feet	19 7,799	56 153,706	11 468,040		21	38	5		
To farm and residential users and other irrigation organizationsorganizations	.,,,,,	155,100	100,040				69,336	279,	
Water to farm and residential usersacre-feet Water to other irrigation organizationsacre-feet			32,384 172,177					27,	
To other irrigation organizations onlyorganizations								170,	
acre-feet Part of water from other organizationsorganizations						,			
Total water conveyedacre-feet		5,579							
From surface and ground water sourcesacre-feet From other irrigation organizationsacre-feet		3,869 1,710							
Water deliveredacre-feet To farm and residential users onlyorganizations		4,800							
To farm and residential users and other		4,800							
irrigation organizationsorganizations									
Water to farm and residential usersacre-feet Water to other irrigation organizationsacre-feet				:::					
To other irrigation organizations onlyorganizations acre-feet									
All of water from other organizations organizations		21							
Total water conveyed acre-feet. Water delivered acre-feet.		106,399 100,550	81,672			106,399	81,672		
To farm and residential users onlyorganizations	:::	21	76,816 4			21	4		
To farm end residential users and other		100,550	59,212			100,550	59,212		
irrigation organizationsorganizations Water to farm and residential usersscre-feet									
water to other irrigation organizationsacre-feet									
To other irrigation organizations onlyorganizations acre-feet	:::		17,604			:::	17,604		
No water conveyedorganizations	1		27,004		1		17,004		
WATER FROM OTHER SOURCES					_				
Organizations reporting NO water from other sources used on land served by the organizationorganizations	18								
acres served	6,918	77 111,768	17 204,488		11 1,978	58 85,989	39,553	102.	
acres irrigated Organizations reporting water from other sources used	3,491	94,180	176,218		1,978	74,432	37,073	86,	
on land served by the organizationorganizations	1	1				1	[
acres served acres irrigated	132	307 307				307 307			
NEW CAPITAL INVESTMENT, 1950-1959		307				307			
Expenditures for additional new works and equipment for irrigation and drainage,									
January 1, 1950-December 31, 1959organizations	4	32	15		4	28	8		
dollars	2,500	210,615	845,886		2,500	89,615	212,434	227,	
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959 Total entering conveyance systems in basinorganizations	19	77.0	18		11	50	10		
Acce-feet From another drainage basin	9,077	182,603	876,574		5,237	133,345	90,601	605,	
acre-feet		3,300	7,940		:::	3,300			
From Drainage Basin numberD. B. No From natural sources within basinorganizations	19	56	12		ii	37			
acre-feet Surface waterorganizations	9,077	179,303	868,634		5,237	130,045	90,601	605,	
acre-feet	9,077	51 163,674	853,304	:::	5,237	129,805	90,601	605,	
Ground waterorganizationsacre-feet		15,629	15,330	:::		240			
From other organizations in the basin		108,109	5			21	5		
Total leaving conveyance systemsorganizations	19	78	81,672		11	106,399	81,672		
acre-feet Conveyance loss in basinorganizations	9,077	290,712	768,465		5,237	239,744	154,669	434,	
acre-feet	1,278	73 30,756	16 174,899	:::	10 581	23,444	26,121	119,	
Conveyed to another drainage basinorganizations acre-feet		1 669	25,330			· · · · ·			
To drainage basin number	19	78	25,550			59			
acre-feet	7,799	259,287	568,236		4,656	216,300	128,548	315,	
To farm irrigation water usersorganizations acre-feet	19 7,799	78 258,362	16 558,431	:::	11 4,656	59 215,547	128,413	307.	
To residential water usersorganizations		8 694	1,205			522	2	501,	
For other useorganizations		1	2	:		1	135		
Delivered to other irrigation organisations organisations delivering	:::	231	,8,600	:::	:::	231	"i	8,	
AVEDAGE DELIVERY OF INDICAMACH MARKS FOR ACCOUNTS			189,781				17,604	170,	
AVERAGE DELIVERY OF IRRIGATION WATER PER ACRE, 1959 Per acre irrigated, as reported by irrigation organization:		ļ				}	- 1		
All organizations	2.2	2.8	3.4		2.4	2.9	3.5	:	
Organizations reporting NO water from other sources used on land served by the organization	18	777	17		11	58	[و		
acre-feet	2.2	2.8	3.3	:::	2.4	2.9	3.6		

NEW MEXICO

(247)

State Table 1.-NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS,

=					Colorado River above Lees Ferry, Arizona (San Juan River) (IV-D)					
	Item (For definitions and explanations, see text)	The State	Gulf of Cali- formia	Colorado River below Lees Ferry, Arizona, total	Total	San Juan River direct	Mencos River	La Plata River	Animas River and Los Pinos River	
				(IV-B and C)		(2a)	(2c)	(2d)	(2e, f)	
1 2	Total acres irrigated in Census year1959 1949	731,835 691,476	53,000 58,815	28,000 21,341	25,000 37,474	11,000 21,584		6,000 3,829	8,000 12,061	
3 4	Irrigation organizationsorganizations 1959 1949	447 620	63 88	24 29	39 59	20 33		7 9	12 17	
5	Service area, 1959: Farm area reported served by organizations	462,200	58,360	13,208	45,152	26,730		7,800	10,622	
6	Farm area reported irrigated by organizationsacres 1959	366,086	46,970	13,044	33,926	18,744		5,133	10,049	
7	Water users served, totalwater users 1959	23,768	2,504	398	2,106	1,176		105	825	
8	Farm irrigation water userswater users 1959	20,828	1,852	351	1,501	941		105	455	
9	Residential water userswater users 1959	2,910	630	47	583	230			353	
10	Other water userswater users 1959	30	22	•••	22	5			17	
11	LAND IRRIGATED BY SOURCE OF WATER, 1959 Ground water sourcesacres	445,652	18,000	18,000		ļ ,				
12	Surface water sources acres	286,183	35,000	10,000	25,000	11,000		6,000	8,000	
	WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959	200,105	35,000	10,000	25,000	11,000		0,000	8,000	
13 14	Total entering conveyance systems in basin	446 1,419,633	63 265,192	24 59,278	39 205,914	20 142,356		7 11,089	12 52,469	
15 16	From another drainage basinorganizations acre-feet	1,903	1,903		1,903	1 242	:::	:::	1,661	
17	Prom drainage basin numberD. B. No					IV-D-2f			Colorado IV-D-2f	
18 19	From natural sources within basinorganizations acre-feet	437 1,417,730	60 263,289	24 59,278	36 204,011	18 142,114		7 11,089	50,808	
20 21	Surface waterorganizations acre-feet	428 1,372,752	58 262,376	24 58,381	34 203,995	16 142,098	:::	7 11,089	50,808	
22 23	Ground waterorganizations acre-feet	26 44,978	7 913	5 897	2 16	2 16			:::	
24 25	From other organisations in the basinorganisations receiving	18 39,971	1 3,851		1 3,851	1 3,851				
26 27	Total leaving conveyance systemsorganizations acre-feet	446 1,419,633	265,192	24 59,278	39 205,914	20 142,356	:::	7 11,089	12 52,469	
28 29	Conveyance loss in basinorganizations acre-feet	423 492,142	61 63,548	24 10,109	37 53,439	18 35,135		7 1,386	12 16,918	
30 31	Conveyed to another drainage basinorganizations acre-feet	::-				:::	:::			
32	To drainage basin number									
33 34	Delivered for use in the basinorganizations acre-feet	446 927,491	63 201,644	24 49,169	39 152,475	20 107,221		9,703	12 35,551	
35 36	To farm irrigation water usersorganizations acre-feet	900,617	63 184,457	24 49,061	39 135,396	20 96,673	:::	9,703	29,020	
37 38	To residential water usersorganizations acre-feet	76 15,845	11 10,320	108	10,212	8,186	:::		2,026	
39 40	For other useorganizations acre-feet	13 11,029	6 6,867		6,867	3 2,362	:::	:::	3 4,505	
41 42	Velivered to other irrigation organizations	12 39,971	1 3,851		1	1 2 25				
43	Average delivery of irrigation water per acre irrigated as reported by organizationsacre-feet	2.5	3,951	3.8	3,851	3,851		1.0	2.0	
	NEW CAPITAL INVESTMENT, 1950-1959		5.9	5.0	4,0	5.2		1.9	2.9	
44	Expenditures for additional new works and equipment for irrigation and drainage, Jan. 1, 1950-bec. 31, 1959organizations dollars	212	26 261,844	10 97,030	16	6		1	9	
	dollars	13,666,262	261,844	97,030	164,814	53,071		1,130	110,613	

BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950

		Exclud	ing Rio Grande	(V-A)			Rio Grande belo	w Fort Quitman,	Texas (Pecos	River) (V-8)		Γ
Gulf of				Brazos River				Pec	os River dire	ct		
Mexico excluding Missicsippi River	Total	Colorado River	Total	Brazos River direct	Salt Fork	Total	Sscramento River	Total	Below Acme	Acme to Alamogordo Dam and sbove Alamo- gordo Dam	Gallinas River	
		(5b)		(6b)	(6c)		(lc)		(2b)	(2c, d)	(2g)	-
602,000 562,207	200,000 98,767	71,000 61,931	129,000 36,836	80,000 36,583	49,000 253	181,000 196,108	:::	176,000 190,443	158,000 169,283	18,000 21,160	5,000 5,665	2
318 450	:::	:::	:::	:::	:::	58 71	:::	50 61	23 30	27 31	8 10	
322,669						65,575		58,285	45,432	12,853	7,290	
256,427						52,245		46,721	34,763	11,958	5,524	. 6
19,842						1,821		1,708	574	1,134	113	1
17,675						1,742		1,644	549	1,095	98	
2,160						73		59	22	37	14	
7						6		5	3	2	1	10
415,000	199,000	70,000	129,000	80,000	49,000	131,000		131,000	121,000	10,000		1
187,000	1,000	1,000				50,000		45,000	37,000	8,000	5,000	12
317 1,001,782	:::	:::	:::			57 189,559		49 181,831	22 142,302	27 39,529	8 7,728	
:::					•••		:::	:::			:::	1:
												17
311 1,001,782		:::	:::	:::		56 189,559	:::	49 181,831	22 142,302	27 39,529	7,728	18
304 957,717		:::		:::		54 176,649	:::	47 168,921	20 129,392	27 39,529	7,728	
19 44,065	:::	:::	:::	:::	:::	12,910	:::	12,910	12,910	:::	:::	22
13 34,877	:::	:::	:::	:::	:::	2 665	:::	1 365		1 365	1 300	24
317 1,001,782		:::	:::	:::		57 189,559	:::	49 181,831	22 142,302	27 39,529	8 7,728	
296 366,159	:::	:::	:::	:::	:::	54 47,938	:::	46 46,617	20 41,406	26 5,211	8 1,321	
480												30
												32
316 635,143	:::	:::		:::		57 141,621	:::	49 135,214	22 100,896	27 34,318	8 6,407	
315 627,060	:::	:::	:::	:::		57 138,504	:::	132,607	22 98,860	27 33,747	5,897	
52 4,821	:::	:::		:::		8 191	:::	7 164	2 43	5 121	1 27	37 38
3,262	:::	:::	:::	:::		2,926	:::	2,443	2 1,993	2 450	1 483	39 40
7 34,877	:::	:::	:::			2 665	:::	1 365	:::	1 365	1 300	
2.4						2.7		2.8	2.8	2.8	1.1	42
157 12,788,762	:::		:::	:::	:::	34 1,381,697		31 1,294,797	14 1,241,705	17 53,092	3 86,900	

State Table 1.-NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS,

٦				** ***	Rio Grande	above Fort	Quitman, Te	xas (V-C)			
				Rio Gran	de direct						
	Item (For definitions and explanations, see text)	Total	Total	Below San Marcial	San Marcial to Otowi Bridge	Above Otowi Bridge	Mimbres Valley	Tularosa and Estancia Valleys	Rio Puerco	Tesuque Creek	Santa Cruz River
				(la)	(1b)	(lc)	(2)	(3)	(4)	(5)	(6)
1 2	Total acres irrigated in Census year	221,000 267,332	137,000 166,780	87,000 88,645	41,000 63,006	9,000 15,129	33,000 24,738	22,000 20,931	3,000 10,696	3,000 2,412	1,000 3,710
3 4	Irrigation organizationsorganizations 1959	260 379	52 72	4	15 23	33 43	15 15	7 10	19 25	28 30	20 36
5	Service area, 1959: Farm area reported served by organizations	257,094	197,366	102,895	70,442	24,029	2,097	3,676	7,181	3,815	1,577
6	Farm area reported irrigated by organizationsacres 1959	204,222	159,808	85,639	56,251	17,918	1,475	2,922	3,886	2,608	1,505
7	Water users served, totalwater users 1959	18,021	12,300	3,276	6,086	2,938	104	417	313	651	465
8	Farm irrigation water userswater users 1959	15,933	11,117	2,637	5,711	2,769	104	193	313	621	465
9	Residential water userswater users 1959	2,087	1,182	639	375	168		224		30	
10	Other water userswater users 1959	1	1			1					
	LAND IRRIGATED BY SOURCE OF WATER, 1959										
11	Ground water sourcesacres	85,000	33,000	21,000	11,000	1,000	31,000	19,000	1,000		
12	Surface water sourcea	136,000	104,000	66,000	30,000	8,000	2,000	3,000	2,000	3,000	1,000
13 14	Total entering conveyance systems in basin	260 812,223	52 723,780	4 387,359	15 301,522	33 34,899	15 3,700	7 7,313	19 7,418	28 6,883	20 13,022
15 16	From another drainage basinorganizations acre-feet		7,500	:::	:::	7,500	:::	:::	:::	:::	:::
17	From drainage basin numberD. B. No					IV-F-1					
18 19	From natural sourcea within basinorganizations acre-feet	255 812 ,2 23	49 716,280	4 387,359	301,522	31 27,399	15 3,700	7 7,313	19 7,418	28 6,883	20 13,022
20 21	Surface waterorganizations acre-feet	250 781,068	48 688,260	3 386,039	14 275,022	31 27,199	15 3,700	5,940	17 6,649	28 6,070	20 13,022
22 23	Ground waterorganizations acre-feet	16 31,155	28,020	1,320	26,500	200		3 1,373	3 769	6 813	:::
24 25	From other organisations in the basinorganisations receiving	11 34,212	8 32,075		7 31,275	1 800					
26 27	Total leaving conveyance systemsorganizations acre-feet	260 812,223	723,780	387,359	301,522	33 34,899	15 3,700	7,313	19 7,418	28 6,883	20 13,022
28 29	Conveyance loss in basinorganizations acre-feet	242 318,221	49 301,476	176,140	118,802	30 6,534	15 631	7 1,521	19 1,438	27 1,131	17 696
30 31	Conveyed to another drainage basinorganizations acre-feet	480		:::		:::		:::	:::		7,500
32	To drainage basin numberD. B. No		•••								IV-E-1
33 34	Delivered for use in the basinorganizations acre-feet	259 493,522	422,304	211,219	15 182,720	28,365	15 3,069	7 5,792	19 5,980	28 5,752	19 4,826
35 36	To farm irrigation water usersorganizations acre-feet	258 488,556	418,665	209,670	15 181,680	27,315	3,069	5,241	19 5,9 8 0	28 5,687	19 4,826
37 38	To residential water usersorganizations acre-feet	4,630	3,303	1,549	1,040	10 714	:::	3 551	:::	2 65	:::
39 40	For other useorganizations acre-feet	1 336	336	:::	:::	1 336			:::		:::
41	Delivered to other impation organisations delivering acre-feet	5 34,212	2 32,075		1 31,275	1 800					
43	Average delivery of irrigation water per acre irrigated as reported by organizationsacre-feet	2.4	2.6	2.4	31,275	1.5	2.1	1.8	1.5	2.2	3.2
44 45	NEW CAPITAL INVESTMENT, 1950-1959 Expenditures for additions new works and equipment for irrigation and drainage, Jan. 1, 1950-nec. 31, 1959organizations	123 11,407,065	19 10 ,627,49 9		3 10,584,300	16 43,199	3 6,200	18,000	8 15,325	20 39,288	1,095

BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950-Continued

io Grande	above Fort	Quitmen, T	exas (V-C)-	-Continued		Missis-				Arkanss	as River (V	I-B)			
						River, excluding Arkensas			,,	Canadier	River				
do Chama	Embudo River	Rio Pueblo de Taos	Costilla Creek	San Antonio and Conejos Rivers	Missis- sippi River	River and Red River direct below Lake Texhoma	Total	Total	Canadian River direct	Total	Mora River	Sapello Creek	Cimarron River	Cimarron River	Purga- toire River
(7)	(8)	(9)	(10)	(11)		(A-IV)			(2a, b)		(2c)	(2d)_	(2e)	(3)	(6)
13,000 17,986	3,000 6,421	4,000 11,061	2,000 2,304	293	77,000 70,454	2,000	75,000 70,454	71,000 65,169	49,000 30,705	7,000 14,079	7,000 11,583	2,496	15,000 20,385	4,000 5,285	
48 113	35 43	27 25	11 9		67 84	:::	67 84	67 84	8 7	58 72	44 51	14 21	6	:::	::
11,487	15,099	12,431	2,365		81,171		81,171	81,171	57,551	17,280	15,897	1,383	6,340		
10,848	11,537	7,738	1,895		62,649		62,649	62,649	46,918	11,646	10,595	1,051	4,085		
861	1,165	1,576	169		1,422		1,422	1,422	507	891	785	106	24		
674	1,105	1,190	151		1,301		1,301	1,301	507	770	680	90	24		
187	60	386	18		120		120	120		120	104	16			
•••					1		1	1		1	1				
1,000					13,000	2,000	11,000	10,000	10,000					1,000	
12,000	3,000	4,000	2,000		64,000	***	64,000	61,000	39,000	7,000	7,000		15,000	3,000	
47 25,700	35 17,803	27 10,493	11 3,161		67 153, 1 39	:::	67 153,139	67 153,139	8 120,974	58 23,7772	44 22,279	14 1,925	12,317	:::	:
					1 480	:::	1 480	1 480	3,721	1 480	1 480	1 432	1 203		
											V-C-9	VI-B-2c	VI-B-2b		
47 25,700	33 17,803	26 10,943	11 3,161		66 152,659	:::	66 152,659	66 152,659	7 117,253	56 23,292	43 21,799	13 1,493	12,114		:
47 25,520	33 17,803	26 10,943	11 3,161		66 152,659		66 152,659	66 152,659	7 117,253	56 23,292	43 21,799	13 1,493	3 12,114		:
1 180	:::	:::	:::		:::	:::	:::	:::	:::		:::	:::	:::	:::	:
:::	2 1,437	1 700	:::	:::	1,243	:::	1,243	1,243	:::	4 1,243	1,243	:::		:::	
47 25,700	35 17,803	27 10,493	11 3,161		67 153,139	:::	67 153,139	67 153,139	120,974	58 23,772	22,279	14 1,925	12,317		
41 5,776	33 3,523	23 1,608	11 421		66 62,435	:::	66 62,435	66 62,435	8 55,651	57 4,679	43 4,414	14 265	2,105		:
		1 480							1 203		1 432		3,721		
		V-C-11									VI-B-2d		VI-B-2b		
47 19,924	35 14,280	26 8,855	11 2,740		67 90,704		67 90,704	67 90,704	65,120	57 19,033	44 17,433	14 1,660	6,491		
47 19,818	35 14,147	26 8,406	10 2,717		67 89,100		67 89,100	67 89,100	8 65,120	57 17,489	44 15,847	14 1,642	4 6,491	:::	::
6 106	5 133	7 449	2 23		13 704		13 704	13 704	:::	13 704	10 686	3 18	:::	:::	
:::	:::	:::	:::		1 900	:::	900	900	:::	900	900	:::	:::	:::	
:::	1,437	700	:::	:::	4 1,243		1,243	1,243		1,243	1,243			:::	::
1.8	1.2	1.1	1.4		1.4		1.4	1.4	1.4	1.5	1.4	1.5	1.6		
30 671,402	18 18,700	14 6,906	7 2,650	:::	29 615.65 6	:::	29 615,656	29 615,656	5 583,370	25 30,416	21 28,656	4 1,760	2 1,870	:::	

State Table 2.-NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950

Item (For definitions and explanations, see text)	New Mexico, total	Colorado River above Lees Ferry excluding Green and Gunnison Rivers	Rio Grande below Fort Quitman	Rio Grande above Fort Quitman, Texas	Arkansas River
		(IV-D)	(V-B)	(V-C)	(VI-B)
Irrigation organizations, total numberorganizations 1959 1949	447 620	39 59	58 71	260 379	
Area irrigated as reported by organizationsacres 1959	366,086 384,210	3 3, 926 3 7, 398	52,245 55,673	204,222 223,368	62,6 57,1
Farm water users served directlywater users 1959	20,828	1,501	1,742	15,933	1,3
Total water conveyedacre-feet 1959	1,459,604	209,765	190,224	846,435	154,3
TYPE OF ORGANIZATION					
Mutual: Unincorporatedorganizations 1959 1949 Farm area irrigated directlyacres 1959	363 485 100,758	20 32 14,271	45 55 8,206	215 314 50,621	14,61
Farm water users served directlywater users 1959 Total water conveyedacre-feet 1959	8,147 319,777	507 79,979	973 26,269	5,539 122,826	71,0. 71,90
Incorporatedorganizations 1959 1949 Farm area irrigated directlyacres 1959 Farm water users served	57 80 33 , 680	5 4 3 ,8 29	8 11 (D)	39 42 14,785	(I
directly water users 1959 Total water conveyedacre-feet 1959	1,709 68,692	209 12,573	(D) (D)	1,254 29,709	(1
Districtorganizations 1959	11	3	2	4	,,
Farm area irrigated directlyacres 1959 Farm water users served directlywater users 1959	(D)	9,500	(Д)	6,491	Ċ
Total water conveyedacre-feet 1959	(D)	276 40,005	(D)	1,590 10,913	I) I)
U.S. Bureau of Reclamation; projects and stor- age systems operated by bureauorganizations 1959 1949	3	:::	1	2	•
Farm area irrigated directlyacres 1959 Farm water users served	132,325	:::		132,325	
directlywater users 1959 Total water conveyedacre-feet 1959	7,550 682,987		:::	7,550 682,987	
U. S. Bureau of Reclamation; operated by water users organizations 1959	4		2		
1949 Farm area irrigated directlyacres 1959 Farm water users served	67,594		(D)	:::	(1
directlywater users 1959 Total water conveyedacre-feet 1959	879 227,060		(D)		(I
U. S. Bureau of Indian Affairsorganizations 1959 1949	12 42	11 22	1 1		
Farm water users served	6,712	6,326	386		::
directlywater users 1959 Total water conveyedacre-feet 1959	570 79,170	509 77,208	1,962		••
Commercialorganizations 1959	1		1 1	:::	
Farm area irrigated directlyacres 1959 Farm water users served directlywater users 1959	(D)		(D)	•••	
Total water conveyedacre-feet 1959	(D)	:::	(D)	***	•
Stateorganizations 1959 1949					•
Farm area irrigated directlyacres 1959 Farm water users served directlywater users 1959	•••				••
Total water conveyedacre-feet 1959 Cityorganizations 1959	•				•
Farm area irrigated directlyacres 1959	2			2	••
Farm water users served directlywater users 1959	•••				
Total water conveyedacre-feet 1959	:::		:::		

State Table 2.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Continued

=						
	(For definitions and explanations, see text)	New Mexico, total	Colorado River above Lees Ferry excluding Green and Gunnison Rivers	Rio Grande below Fort Quitman	Rio Grande above Fort Quitman, Texas	Arkanaan River
			(IV-D)	(V-B)	(V-C)	(VI-B)
	TYPE OF SERVICE, 1959					
2 3 4	ground water sourcesorganizations Total water conveyedacre-feet Water deliveredacre-feet To (arm and residential	428 1,419,407 932,369	38 205,914 147,359	55 189,306 138,522	249 815,463 509,888	63 149,926 87,431
5	users onlyorganizations acre-feet	416 708,823	36 131,949	53 132,517	243 309,483	60
7	To farm and residential users and other irrigation organizationsorganizations Water to farm and residential	12	2	2	309,463	85,705
8	usersacre-feet Water to other irrigation	184,379	11,559	5,340	166,193	1,287
9	organizationsacre-feet To other irrigation organizations onlyorganizations	39,167	3,851	665	34,212	439
10	acre-feet	:::	•••			***
11	Part of water from other					
12 13	organizationsorganizations Total water conveyedacre-feet From surface and ground water	33,004	:::	618	27,930	4,456
14	sources	226		253	1+3,240	3,213
15 16	organizationsacre-feet Water deliveredacre-feet To farm and residential	32,778 19,064	:::	365 548	31,170 14,900	1,243 3,616
17	users onlyorganizations	10 16,580		1 548	6 14,900	3
18 19	To farm and residential users and other irrigation organizations organizations Water to farm and residential	1			14,900	1,132
20	usersacre-feet Water to other irrigation	1,680				1,680
21	organizationsacre-feet To other irrigation organizations	804				804
22	onlyorganizations acre-feet				:::	
23 24 25 26	All of water from other organizations. organizations. Total water conveyed. acre-feet. Water delivered. acre-feet. To farm and residential	7 7,193 5,000	3,851 2,100	1 300 290	5 3,042 2,610	•••
27 28	users onlyorganizations acre-feet To farm and residential users and other	5,000	2,100	1 290	5 2,610	
29	irrigation organizationsorganizations Water to farm residential					
30	usersacre-feet Water to other irrigation					
31	organizationsacre-feet To other irrigation organizations					
32	only	:::		:::	:::	:::
33	No water conveyedorganizations	1		1		
	WATER FROM OTHER SOURCES			-		•••
34	Organizations reporting NO water from other sources used on land served by the organization	440	39	55		
35 36 37 38	acres served acres irrigated Water delivered to farmsacre-feet acre-feet per acre	441,358 350,653 845,675 2.4	39 55,099 42,229 160,927 3.8	38,720 31,843 67,108 2.1	258 255,256 202,509 485,943 2.4	66 80,821 62,399 88,703 1.4
39	Organizations reporting water from other sources used on land served by the organization	6		2	2	1.4
40 41 42 43	acres served acres irrigated water delivered to farmsacre-feet acre-feet per acre	32,543 25,490 81,992 3.2	::: }	26,855 20,402 71,396 3.5	2,588 2,088 2,960 1.4	350 250 397 1.6

Water was transferred to the basin and released to natural stream channels in excess of the quantity of surface water withdrawn by irrigation organizations. The net effect was to increase the available surface water supply in the basin or State.

State Table 2.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Continued

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	Item (For definitions and explanations, see text)	New Mexico, total	Colorado River above Lees Ferry excluding Green and Gunnison Rivers	Rio Grande below Fort Quitman	Rio Grande above Fort Quitman, Texus	Arkunsas River (VI-B)
			(1V-D)	(Y-D)	(4-0)	(VI-D)
1 2 3 4 5 5 6 7 7 8 9 10 11 12 13 14 15 16 17 18 19 19 20	Organizations reporting 700 water from other sources used on same land: 0.1 to 0.9 scre-feet per acre organizations. acres irrigated. 1.0 to 1.9 acre-feet per acre organizations. acres irrigated. 2.0 to 2.9 acre-feet per acre organizations. acres irrigated. 3.0 to 3.9 acre-feet per acre organizations. acres irrigated. 4.0 to 4.9 acre-feet per acre organizations. acres irrigated. 5.0 to 5.9 acre-feet per acre organizations. acres irrigated. 6.0 to 6.9 acre-feet per acre organizations. acres irrigated. 7.0 to 7.9 acre-feet per acre organizations. acres irrigated. 8.0 to 9.9 acre-feet per acre organizations. acres irrigated. 10.0 or more sare-feet per acre organizations. acres irrigated.	45 23,99 105,215 119 132,612 72 22,802 24 56,189 469 3 240 3 450 3 450 8 6,117	 11 5,263 10,334 9 14,824 3 5,558 3 2,550 2 3,700	820 17 9,533 15 18,548 1,525 792 1 3800 2	30 13,607 97,707 33,428 79 102,305 4,5,239 6,47,688 11 210 366 	11 4,916 32 55,491 11,385 2 109 3 31,2 2 69 9 1 4 2 2 1100
	SIZE OF ORGANIZATION					
21 22 23 24 25 26 27 28 29 30 31 32 33 34	Size of organization (number of farm frrigation water users served directly):	2 1.1488 884 504 1642 2,6677 1077 4,979 2,213,3 1,1077 3 9,050	7 16 31 13 220 7 323 616	1 9 20 13 80 17 901 15 773 3 566 	1 24 60 53 306 87 1,385 77 3,513 1,631 3 9,050	15 36 11 63 33 545 7 291
36 37 38 39 40 41 42 43 44 45 46 47 48 49	delivered directly to farme): None	2 222 26,975 137 64,887 86,432 21 102,536 108,471 3 162,202 2 371,151	 9 875 9 4,637 15,457 8 3 36,861 3 3 64,150 	1 28 3,490 16 7,709 8 14,052 2 2 2 33,935 1 1 71,324	1 146 17,861 82 42,683 3 3 16,975	3,5 4,269 24 10,704 4 5,573 3 16,573 1 51,981
51 52 53 54 55 56 57 58 59 60 61 62 63 64 65	Size of organization (acre-feet of water conveyed): None	1 201 25,807 134 68,620 6,620 110,878 27 137,065 152,898 4 234,173 3 785,733	7 450 9 4,334 16,731 8 43,774 92,352 2 106,218	1 25 3 318 17 8 706 8 12,632 2 2 2 1,019 1 1 1 6,994 2 127,955	135 17,453 79 41,200 35 55,915 38,480 11,400	30 3,961 25 11,833 10,077 3 3 15,000 1 10,765 1

State Table 3.-LAND IRRIGATED BY SOURCE OF WATER, BY DRAINAGE BASINS: CENSUS OF 1959

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	item (For definitions and explanations, see text)	New Mexico, total	Arkansas River	Rio Grande below Fort Quitman, Texas	Colorado River above Lees Ferry excluding Green and Gunnison Rivers	Rio Grande above Fort Quitman, Texas	Mississippi River excluding Arkansas River and Red River direct below Lake Texhoms
			(VI-B)	(V-B)	(IV-D)	(V-C)	(VI-A)
1	Total acres irrigated	8,850	663	1,521	517	4,723	7
2	acres	731,835	75,219	181,266	24,954	220,383	2,000
3	Acres irrigated by sprinklersfarms reporting	158	20	14		49	
4	acres	18,988	1,484	572		3,156	• • • • • • • • • • • • • • • • • • • •
5	Sprinklers onlyfarms reporting	85	10	5		24	
6	acres	12,754	946	282		1,897	
	LAND IRRIGATED, BY SOURCE OF WATER TO INDIVIDUAL FARMS, 1959						
7	Ground water sources on farmfarms reporting	3,357	77	814	3	1,173	7
8	acres	439,163	11,677	128,338	118	79,982	2,000
9	Ground water sources on farm only.farms reporting	2,507	68	648	3	538	7
10	acres	392,498	11,413	107,160	118	57.053	2,000
11	Surface sources on farmfarms reporting	1,282	231	192	10	779	
12	acres	56,635	18,244	15,825	348	17,640	
13	Surface sources on farm onlyfarms reporting	1,136	223	137	7	707	
14	acres	40,627	16,563	7,204	292	12,320	
15	Irrigation organization sourcesfarms reporting	5,100	364	691	507	3,429	
16	acres	236,037	45,298	37,103	24,488	122,761	
17	Irrigation organization sources						
	onlyfarms reporting	4,321	361	565	504	2,819	
18	acres	165,639	44,675	23,321	24,435	69,958	
19	Both farms ground water sources and surface sources	104	7	45		47	
20	acres	23,084	1,537	15,598		4,868	
21	Both irrigation organization and farm ground water or farm surface sourcesfarms reporting	782	4	126	3	612	
22	acres	109,987	1,031	27,983	109	76,184	
		i	1	l	L		

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950

				New Mexico, total	1		
Item		Mut	cual		U. S. Bureau	of Reclamation	
(For definitions and explanations, see text)	All types	Unincorporated	Incorporated	District	Projects and storage systems operated by bureau	Operated by	Commercial, Indian, State, city, and other
Irrigation organizationsorganizations 1959	447 620	363 485	57 80	11 7	3	4	13 45
Service area, 1959: Area served, as reported by organizations	462,200	138,647	45,757	(D)	157,620	80,286	(D)
by organizations	366,086 23,768 20,828 2,910 30	100,758 10,053 8,147 1,885 21	33,680 1,943 1,709 230 4	(D) (D) (D) (D) (D)	132,325 8,189 7,550 639	67,594 881 879	(D) (D)
TYPE OF SERVICE, 1959							
All water directly from surface and ground water sources. organizations Total water conveyed acre-feet. Water delivered acre-feet. To farm and residential users only. organizations.	428 1,419,407 932,369 416	345 279,580 210,514	57 68,692 53,609	11 (D) (D)	2 682,987 403,975	227,060 145,740	12 (D) (D)
acre-feet To farm and residential users and other	708,823	189,982	45,020	(D)	209,550	145,740	(D)
irrigation organizationsorganizations Water to farm and residential users	184,379	13,740	7,489		163,150		
Water to other irrigation organizationsacre-feet To other irrigation organizations	39,167	6,792	1,100		31,275		
onlyorganizations acre-feet	•••	:::	:::	:::	:::		:::
Part of water from other organizationsorganizations Total water conveyedacre-feet From surface and ground water	33,004	11 5 33,004	:::		.::		:::
sourcesacre-feet From other irrigation organizationsacre-feet Water deliveredacre-feet To farm and residential users	226 32,778 19,064	226 32,778 19,064		•••			:
onlyorganizations arre-feet To farm and residential users and other	10 16,580	10 16,580	:::		:::	:::	:::
irrigation organizationsorganizations Water to farm and residential usersacre-feet	1,680	1,680		•••			
Water to other irrigation organizations	804	804					
onlyorganizations acre-feet All of water from other organizationsorganizations	:::	:::	:::	:::	:::	:::	
Total water conveyed	7,193 5,000	7,193 5,000	:::			•••	
onlyorganizations scre-feet To farm and residential users and other	5,000	5,000	:::'	:::	:::	:::	:::
irrigation organizationsorganizations Water to farm and residential			•••			•••	
Usersacre-feet Water to other irrigation organizationsacre-feet							•••
To other irrigation organizations only organizations acre-feet.	:::	:::	:::	:::		:::	•••
No water conveyedorganizations WATER FROM OTHER SOURCES	i	:::	:::	:::	i	:::	:::
Organizations reporting no water from other sources used on the land served by the organizationorganizations	440	360	55	,10	2	3	(13
acres served acres irrigated water delivered to farms (acre-feet) acre-feet per acre	441,358 350,653 845,675 2.4	137,316 99,527 208,013 2.1	51,301 39,160 74,270 1.9	(D) (D) (D) 1.8	157,620 132,325 371,151 2.8	55,220 47,912 27,633 0.6	(D) (D) (D) 5.1
Organizations reporting water from other sources used on land served by the organization	6 32,543 25,490 81,992 3.2	3 3,188 3,088 7,868 2.5	2,300 2,720 2,800 1.0	(D) (D) (D) (D) 3.6		25,055 19,682 71,324 3.6	
NEW CAPITAL INVESTMENT, 1950-1959 Expenditures for additional new works and equipment for irrigation and dreinage. January 1, 1950-becember 31, 1959	212 12,772,740 893,522	167 407,373	34, 324,052	8 (D) (D)	12,203,000	3 569,740 105,872	1 (D)

				New Mexico, tota			
Item		Mut	cuel	New Mexico, tota.	U. S. Bureau c	of Reclamation	
(For definitions and explanations, see text)	All types	Unincorporated	Incorporated	District	Projects and storage systems operated by bureau	Operated by	Commercial, Indian, State, city, and other
WATER CONVEYED BY IRRIGATION DRGANIZATIONS, 1959							
Total entering conveyance systemsorganizations acre-feet	446 1,419,633	363 279,806	57 68,692	(D)	682,987	227,060	13 (D)
From another drainage basinorganizations acre-feet From drainage basinD. B. No	1,903	1 242	1,661		:::		
From sources within basinorganizations acre-feet	437 1,417,730	355 279,564	56 67,D31	11 (D)	2 682,987	4 227,060	13 (D)
Surface waterorganizations acre-feet	428 1,372,752	350 274,584	54 65,949	11 (D)	2 656,487	227,060	11 (D)
Ground waterorganizations acre-feet	26 44 , 978	16 4,980	1,082	:::	26,500		(D)
From other organizations in the basin organizations receiving	18 39,971	18 39,971	:::	:::	:::	:::	
Total leaving conveyance systemsorganizations acre-feet	446 1,419,633	363 312,181	57 67 , 592	11 (D)	2 651,712	227,060	13 (D)
Conveyance loss in basinorganizations	423 492,142	349 78,216	52 12,480	9 (D)	2 279,012	80,327	11 (D)
Conveyed to another drainage basinorganizations acre-feet		:::					
To drainage basin number							
Delivered for use in the basinorganizations acre-feet	446 927,49 1	363 233,965	57 55,112	(D)	372,700	146,733	13 (D)
To farm irrigation water usersorganizations acre-feet	900,617	362 214,082	57 51,819	(D)	371,151	145,740	13 (D)
To domestic water usersorganizations acre-feet	76 15,845	12,900	690	(d)	1,549	:::	:::
For other useorganizations acre-feet	13 11,029	6,983	2,603	(D)	:::	993	:::
Velivered to other irrigation organizations	12 39,971	9 7,596	1,100		31,275		
SIZE OF ORGANIZATION, 1959							
Size of organization (number of farm irrigation water users):		_		(-)			(*)
Noneorganizations 1 to 3 water usersorganizations	11 61	9 56	1 2	(D)			(D)
4 to 9 water usersorganizations 10 to 29 water usersorganizationa	88 153	75 130	10 19	(D)	:::		(D) (D)
30 to 99 water usersorganizations 100 to 299 water usersorganizations	107 21	78 14	22	(D)	:::	1 2	(D)
300 to 999 water usersorganizationa 1,000 or more water usersorganizations	3 3	1	:::	(D)	2		(D)
Size of organization (acre-feet of water delivered directly to farms):							
Noneorganizations 1 to 299 acre-feetorganizations	2 222	1 194	20	(D)	1		(D) (D) (D)
300 to 999 acre-feetorganizations 1,000 to 2,999 acre-feetorganizations	1.37 54	115 37	20 13	(D)	:::	***	(D) (D)
3,000 to 9,999 acre-feetorganizations 10,000 to 29,999 acre-feetorganizations	21 6	15	3 2	(D)		1	(D)
30,000 to 99,999 acre-feetorganizations 100,000 or more acre-feetorganizations	3 2	:::		(D)	2	ź	(D) (D)
Size of organization (acre-feet of water conveyed):							
Noneorganizations 1 to 299 acre-feetorganizations	1 201	175	19	(D)	1		(D) (D)
300 to 999 acre-feetorganizations 1,000 to 2,999 acre-feetorganizations	134	114	18 14	(D) (D)			(D)
3,000 to 9,999 acre-feetorganizations 10,000 to 29,999 acre-feetorganizations	27	19	5	(D) (D)			(D)
30,000 to 99,999 acre-feetorganizations	9		1	(D)		1	(D)
100,000 or more acre-feetorganizations	3			(D)	2	1	(D)

 $[\]ensuremath{\mathsf{D}}$ Data not shown to avoid diaclosure of information for individual organizations.

		Colorado	River above Lees	Ferry excluding	Green and Gunnison	Rivers (IV-D)	
Item (For definitions and explanations, see text)		Mut	ual		U. S. Bureau o	f Reclamation	Commercial.
(10, 00, 00, 00, 00, 00, 00, 00, 00, 00,	All types	Unincorporated	Incorporated	District	Projects and storage systems operated by bureau	Operated by water users	Indian, State, city, and other
Irrigation organizationsorganizations 1959 Service area, 1959:	3 9 59	20 32	5 4	3 1	:::	:::	11 22
Area served, as reported by organizations	45,152	16,907	4, 683	10,750			12,812
by organizationsacres	33,926	14,271	3,829	9,500		•••	6,326
Water users served, 1959, total. water users. Farm irrigation water users. water users. Residential water users. water users. Other water users. water users.	2,106 1,501 583 22	952 507 428 17	214 209 3 2	431 276 152 3	:::		509 509
TYPE OF SERVICE, 1959							
All water directly from surface and ground water sources. organisations Total water conveyed	38 205,914 147,359	19 76,128 48,993	12,573 9,939	40,005 28,900			11 77,208 59,527
acre-feet To farm and residential users and other	131,949	34,912	8,610	28,900	:::	:::	59,527
irrigation organizationsorganizations Water to farm and residential nsersacre-feet	11,559	10,230	1,329			•••	
Water to other irrigation				•••			
organizationsacre-feet To other irrigation organizationsorganizations onlyacre-feet	3,851	3,851	:::				:::
Part of water from other	•••					• • • • • • • • • • • • • • • • • • • •	
organizationsorganizations		:::	:::	:::	:::		:::
sources			:::				:::
onlyorganizations acre-feet	***		:::		:::		:::
To farm and residential users and other irrigation organizations organizations Water to farm and residential							
water to other irrigation	• • • • • • • • • • • • • • • • • • • •					•••	
organizationsacre-feet To other irrigation organizations onlyorganizations							
acre-feet						•••	
All of water from other organizationsorganizations Total water conveyed	3,851 2,100	3,851 2,100			:::	•••	:::
onlyorganizations acre-feet	2,100	2,100	:::		:::	***	:::
To farm and residential users and other irrigation organizations							
usersacre-feet Water to other irrigation	•••		• • •			•••	
organizationsacre-feet To other irrigation organizations						•••	
onlyorganizations acre-feet		:::	:::	:::	:::		:::
No water conveyedorganizations WATER FROM OTHER SOURCES Organizations reporting no water from other						•••	
organizations reporting in water from tomes sources used on the land served by the organizations. acres served sares irrigated water delivered to farms (arre-feet).	39 55,099 42,229 160,927	20 17,010 14,374 37,753	5 14,527 12,029 35,184	3 10,750 9,500 28,463	:::		11 12,812 6,326 59,527
acre-feet per acre Organizations reporting water from other sources used on land served by the	3.8	2.6	2.9	3.0			9.4
organizationorganizations acres acred acres irrigated water delivered to farms (acre-feet)	***						:::
acre-feet per acre NEW CAPITAL INVESTMENT, 1950-1959		:::	:::		:::	:::	:::
Expenditures for additional new works and equipment for irrigation and drainage, January 1, 1950-December 31, 1959organizations By U. S. B. R	16 164,814	12 74,951	3 69,863	20,000		:::	:::

		Colorado Rive	er above Lees Fern	ry excluding Green	and Cunnison Riv	era (IV-D)	
Item (For definitions and explanations, see text)		Mut	tual		U. S. Buresu	of Reclamation	0
	All types	Unincorporated	Incorporated	District	Projects and storage systems operated by bureau	Operated by water users	Commercial, Indian, State, city, and other
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959							
Total entering conveyance systemsorganizations acre-feet	205,914	20 76,128	12,573	40,005			77,208
From another drainage basinorganizations acre-feet	1,903	1 242	1,661				
From drainage basin,	7				::: }		
From sources within basinorganizations acre-feet	36 204,011	18 75,886	10,912	40,005	:::		11 77,208
Surface waterorganizations acre-feet	203,995	18 75,886	10,912	40,005	:::		9 77,192
Ground waterorganizations acre-feet	2 16	:::	:::	:::	:::		2 16
From other organizations in the basinorganizations receiving acte-fect	3,851	3,851	:::	:::			
Total leaving conveyance systemsorganizations acre-feet	39 205,914	20 76,128	5 12,573	3 40,005			11 77,208
Conveyance loss in basinorganizations acre-feet	37 53,439	20 23,589	5 1,514	3 10,655			9 17,681
Conveyed to another drainage basinorganizations acre-feet							
To drainage basin numberD. B. No				:::	:::	:::	:::
Delivered for use in the basinorganizations	39 152,475	20 52,539	5 11,059	3 29,350			11 59,527
To farm irrigation water usersorganizations	39 135,396	20 37,473	9,933	3 28,463	:::		11 59,527
To domestic water usersorganizations acre-feet	10,212	9,769	1 6	2 437	:::		
For other useorganizations acre-feet	6,867	5,297	1,120	1 450	:::		:::
Delivered to other virigation organizations delivering acre-feet	1 3,851	1 3,851		:::			:::
SIZE OF ORGANIZATION, 1959							
Size of organization (number of farm irrigation water users; organizations None organizations 1 to 3 water users organizations 4 to 9 water users organizations 4 to 9 water users organizations 30 to 99 water users organizations 100 to 299 water users organizations 100 to 299 water users organizations 100 to 299 water users organizations 1,000 to more water users organizations 1,000 to more water users organizations	1 7 6 12 7 5 1	1 4 4 7 2 2	 2 1 2	2 1	:::	::: ::: ::: :::	3 2 3 2
Size of organization (scre-feet of water delivered directly to farms): Organizations. However directly to farms): Organizations. However delivered directly to farms): Organizations. However delivered directly organizations. However delivered directly organizations. However delivered directly organizations. However delivered directly organizations. However delivered directly of the directly organizations. However delivered directly organizations. However delivered directly organizations. However delivered directly organizations.	9 9 9 8 3 1	 2 7 5 6 	 1 2 1 1	 1 1 	:::	:::	 7 1 1 1 1
Size of organization (acre-feet of water conveyed): organizations. None. organizations. 1 to 299 acre-feet. organizations. 1,000 to 2,999 acre-feet. organizations. 1,000 to 2,999 acre-feet. organizations. 10,000 to 29,999 acre-feet. organizations. 10,000 to 99,999 acre-feet. organizations. 10,000 to 99,999 acre-feet. organizations. 100,000 or more scre-feet. organizations.	77 99 98 84 2	 1 6 6 5 2	 1 2 1 	2 1			 6 2 1

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

			Rio Grande	below Fort Quits	an (V-B)		
Item (For definitions and explanations, see text)		Mut	ual		U. S. Bureau	of Reclamation	Commercial.
(For definitions and explanations, see text)	All types	Unincorporated	Incorporated	District	Projects and storage systems operated by bureau	Operated by water users	Indian, State, city, and other
Irrigation organizationsorganizations 1959	58 71	45 55	8 11	2 2	1	2	2 2
Service area, 1959: Area served, as reported by organizationsacres	65,575	11,507	(D)	(D)		(D)	(D)
Area irrigated, as reported by organizationsacres	52,245	8,206	(D)	(D)		(D)	(D)
Water users served, 1959, total	1,821 1,742 73 6	1,031 973 56 2	(D) (D) (D)	(D)		(D) (D)	(D) (D)
TYPE OF SERVICE, 1959							
All water directly from surface and ground water sources	55 189,306 138,522 53	43 25,351 20,520 42	8 (D) (D)	(D) (D)		(D) (D) 2	2 (D) (D)
To farm and residential users and other	132,517	19,615	(D)	(D)		(D)	(D)
irrigation organizationsorganizations Water to farm and residential	2	1	1				•••
usersacre-feet *ater to other irrigation organizationsacre-feet To other irrigation organizations	5,340 665	540 365	(D)				
onlyorganizations			•••			•••	
Part of water from other organizations	1 618	1 618	***				
sources	253	253				•••	
Water delivered	365 548 1	365 548	•••	:::			:::
acre-feet To farm and residential users and other	548	548	•••			•••	
irrigation organizationsorganizations Whater to farm and residential usersacre-feet Water to other irrigation							
organizationsacre-feet To other irrigation organizations onlyorganizations							
acre-feet All of water from other organizationsorganizations							
Total water conveyed	300 290	300 290		:::	:::		:::
onlyorganizations acre-feet	1 290	1 290		:::	:::		:::
To farm and residential users and other irrigation organizations							
usersacre-feet							
organizationsacre-feet To other irrigation organizations	• • •		***			•••	
onlyorganizations acre-feet							:::
No water conveyedorganizations WATER FROM OTHER SOURCES Organizations reporting no water from other	i	:::	:::	:::	i		:::
sources used on the land served by the organizations	55 38,720	45 11,507	7 (D)	(D)	:::		2 (D)
acres irrigated water delivered to farms (acre-feet) acre-feet per acre Organizations reporting water from other	31,843 67,108 2.1	8,206 20,837 2.5	(D) (D) 1.3	(D) (D) 2.5	:::		(D) (D) (D) 2.2
sources used on land served by the organizationorganizations	2		Ι,	,			
acres served acres irrigated water delivered to farms (acre-feet) acre-feet per acre	26,855 20,402 71,396 3.5		(D) (D) (D) 0.1	(D) (D) (D) 3.6			
NEW CAPITAL INVESTMENT, 1950-1959 Expenditures for additional new works and equipment for irrigation and drainage, January 1, 1950-December 31, 1959 organizations. by U. S. B. B dollars. by water users organizations. dollars. See footnote at end of table.	34 1,008,000 373,697	24 61,824	6 (D)	2 (D)	1,008,000	2 (D)	1 (D)

	Rio Grande below Fort Quitman (V-B)								
Item		Mut	ual		U. S. Bureau o	of Reclamation	Commercial,		
(For definitions and explanations, see text)	All types	Unincorporated	Incorporated	District	Projects and storage systems coerated by bureau	Operated by water users	Indian, State, city, and other		
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959									
Total entering conveyance systemsorganizations acre-feet	57 189,559	45 25,604	8 (D)	(D)	:::	(D)	(D)		
From another drainage basinorganizations acre-feet From drainage basinD. B. No		:::			:::		:::		
From sources within basinorganizations	56	44		2		,,,			
Surface waterorganizations	189,559	25,604	(D)	(D)		(D)	(D)		
acre-feet Cround water	176,649	25,604	(D) 2	(D)	:::	(D)	(D)		
From other organizations in the basin organizations receiving	12,910	2	(D)				(D)		
acre-feet Total leaving conveyance systemsorganizations	665 57	665 45				2			
acre-feet Conveyance loss in basinorganizations	189,559	25,904	(D)	(D)		(D)	(D)		
acre-feet Conveyed to another drainage basinorganizations	47,938	4,461	(D)	(D)		(D)	(D)		
acre-feet To drainage basin numberD. B. No		:::							
Delivered for use in the basinorganizations	57	45	. 8	2		. 2	2		
acre-feet To farm irrigation water usersorganizations	141,621 57	21,443 45	(D) 8	(D) 2	:::	(D) 2	(D)		
acre-feet To domestic water usersorganizations	138,504	2D,837	(D)	(D)	:::	(D)	(D)		
acre-feet For other useorganizations acre-feet	191 5 2,926	156 2 450	(D) 2 (D)	1 (D)		1 (D)			
Delivered to other impation organisations delivering.	2	1	1						
acte-feet · · ·	665	365	(D)						
SIZE DF ORGANIZATION, 1959 Size of organization (number of farm									
irrigation water users): Noneorganizations	1		(D)	(D)	1	(D)	(D)		
1 to 3 water usersorganizations 4 to 9 water usersorganizations	9	8 10	(D) (D)	(D) (D)		(D) (D)	(D) (D) (D)		
10 to 29 water usersorganizations 30 to 99 water usersorganizations	17	15 12	(D)	(D) (D)		(D) (D)	(D) (D)		
100 to 299 water usersorganizations	3		(D)	(D)	:::	(D)	(D)		
300 to 999 water usersorganizations 1,000 or more water usersorganizations		:::	:::	:::	:::	(D)	:::		
Size of organization (acre-feet of water delivered directly to farms): None			(D)	(0)		(D)	(D)		
1 to 299 acre-feetorganizations	1 28	25	(D)	(D)		(D)	(d)		
300 to 999 acre-feetorganizations 1,000 to 2,999 acre-feetorganizations	16 8	14 5	(D) (D)	(D)	:::	(D)	(D)		
3,000 to 9,999 acre-feetorganizations 10,000 to 29,999 acre-feetorganizations	2 2	1	(D)	(D)	:::	(D) (D)	(D) (D)		
30,000 to 99,999 scre-feetorganizations 100,000 or more scre-feetorganizations		:::	:::	(D)	:::	(D) (D)	(D)		
Size of organization (acre-feet of water conveyed):									
Noneorganizations 1 to 299 acre-feetorganizations	1 25	22	(D)	(D)		(D)	(D) (D) (D)		
300 to 999 acre-feetorganizations 1,000 to 2,999 acra-feetorganizations	17 8	15 6	(D)	(D) (D)	:::	(D)	(n)		
3,000 to 9,999 acre-feetorganizations 10,000 to 29,999 acre-feetorganizations	4		(D)	(D) (D)	:::	(D) (D)	(D)		
30,000 to 99,999 acre-feetorganizations 100,000 or more acre-feetorganizations	2			(D)	:::	(D)	(D)		
see, see and dose-recommend games of the see	•••	l	•••			(1)	L		

D Data not shown to avoid disclosure of information for individual organizations.

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

			Rio Grande abo	ve Fort Quitman,	Texas (V-C)		
Tem (Sinitions and Ambandians and Auth)		Mut	ual		U. S. Bureau of Reclamation		
(For definitions and explanations, see text)	All types	Unincorporated	Incorporated	District	Projects and storage systems operated by bureau	Operated by water users	Commercial, Indian, State, city, and other
Irrigation organizationsorganizations 1959 1949 Service area, 1959:	260 379	215 314	39 42	4 3	2 1		19
Area served, as reported by organizationsacres							
by organizations	257,094	74,751	18,021	6,702	157,620	•••	
Water users served, 1959, totalwater users	18,021	50,621 6,774	14,785 1,464	6,491 1,594	132,325		.:
Farm irrigation water users	15,933 2,087	5,539 1,234 1	1,254 210	1,590	7,550 639		::
TYPE OF SERVICE, 1959							
All water directly from surface and ground					l		
water sources organizations Total water conveyed acre-feet. Water dellvered. acre-feet. To farm and residential users	249 815,463 509,888	204 91,854 70,910	39 29,709 25,665	10,913 9,338	682,987 403,975		::
onlyorganizations acre-feet	243 309,483	200 67,090	38 23,505	9,338	209,550		::
To farm and residential users and other irrigation organizationsorganizations		4			1		
Water to farm and residential users	6		1	•••	1	•••	• • • • • • • • • • • • • • • • • • • •
Water to other irrigation organizations	166,193 34,212	1,683 2,137	1,360		163,150	•••	•••
To other irrigation organizations organizations.	34,212	2,137	800		31,275		
acre-feet		:::	:::	:::	:::	:::	:::
Part of water from other organizationsorganizations Total water conveyedacre-feet From surface and ground water	6 27,930	6 27,930	:::		:::		:::
sourcesacre-feet From other irrigation organizationsacre-feet	1-3,240	1_3,240					•••
Water delivered	31,170 14,900	31,170 14,900			:::		
To farm and residential users and other	14,900	14,900		***	::: }	:::	:::
irrigation organizationsorganizations Water to farm and residential							
usersacre-feet Water to other irrigation organizationsacre-feet							
To other irrigation organizations onlyorganizations							
acre-feet			•••	•••		•••	•••
All of water from other organizationsorganizations Total water conveyed	3,042 2,610	3,042 2,610	:::	•••	:::		
onlyorganizations	2,610	2,610					:::
To farm and residential users and other irrigation organizations							•••
users							
organizationsacre-feet To other irrigation organizations							•••
onlyorganizations acre-feet			:::		:::		
No water conveyedorganizations				•••		•••	
WATER FROM OTHER SOURCES Organizations reporting no water from other sources used on the land served by the							
organizationorganizations acrea served	258 255,256	214 75,413	38 15,521	6,702	157,620	:::	
acres irrigated water delivered to farms (acre-feet)	202,509 485,943	50,908 84,235	12,785 21,488	6,491 9,069	132,325 371,151	:::	•••
organizations reporting water from other sources used on land served by the	2.4	1.7	1.7	1.4	2.8		
organizationorganizations acres served	2,588	88	2,500	:::	:::	:::	:::
acres irrigated water delivered to farms (acre-feet) acre-feet per acre	2,088 2,960 1.4	88 232 2.6	2,000 2,728 1.4	:::	:::	:::	
NEW CAPITAL INVESTMENT, 1950-1959 Expenditures for additional new works and equipment for irrigation and drainage, 2007	123	96	22	4			
By U. S. B. R	11,195,000	140,707	55,133	16,225	11,195,000		

			Rio Grande abo	ove Fort Quitman,	Texas (V-C)		
Item (For definitions and explanations, see text)		Mut	Juni		U. S. Bureau of Reclamation		Commercial.
(For definitions and explanations, see text)	All types	Unincorporated	Incorporated	District	Projects and storage systems operated by bureau	Operated by water users	Indian, State, city, and other
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959							
Total entering conveyance systemsorganizations acre-feet	260 812,223	215 88,614	39 29 , 709	10,913	682,987		:::
From another drainage basinorganizations acre-feet	•••						:::
From drainage basin,	:::	:::	:::	:::	:::		:::
From sources within basinorganizations acre-feet	255 812,223	210 88,614	39 29,709	10,913	682,987		:::
Surface waterorganizationsacre-feet	250 781,068	205 84,531	39 29,137	10,913	656,487		
Ground waterorganizations acre-feet	16 31,155	11 4,083	4 572		26,500		
From other organizations in the basinorganizations receiving	11 34,212	11 34,212	:::	:::			:::
Total leaving conveyance systemsorganizations acre-feet	260 812,223	215 120,689	39 28,909	10,913	651,712		:::
Conveyance loss in basinorganizationsacre-feet	242 318,221	201 33,590	37 4,044	2 1,575	279,012		
Conveyed to another drainage basinorganizations	310,221	1	*,044				
To drainage basin numberD. B. No	480	480	:::	:::			:::
Delivered for use in the basinorganizations	259	214	39	4	2		
acre-feet To farm irrigation water usersorganizations	493,522 258	86,619 213	24,865 39	9,338	372,700	:::	:::
acre-feet To domestic water usersorganizations	488,556 44	84,120 35	24,216	9,069 1	371,151		:::
acre-feet For other useorganizations acre-feet	4,630 1 336	2,163 1 336	649	269	1,549	•••	
Delivered to other impation							
organizationsorganizations delivering ocre-feet	34,212	2,137	800	:::	31,275		:::
SIZE OF ORGANIZATION, 1959 Size of organization (number of farm							
irrigation water users): Noneorganizations	8	7	1				
1 to 3 water usersorganizations 4 to 9 water usersorganizations	24 53	24 45		:::			
10 to 29 water usersorganizations 30 to 99 water usersorganizations	82 77	69 58	12 18	î			:::
100 to 299 water usersorganizations 300 to 999 water usersorganizations	13	12	1		:::		
1,000 or more water usersorganizations		:::	:::	"i	2		:::
Size of organization (acre-feet of water delivered directly to farms):							
Noneorganizations 1 to 299 acre-feetorganizations	1 146	1 129	16	···i	:::	:::	:::
300 to 999 acre-feetorganizations 1,000 to 2,999 acre-feetorganizations	82 26	66 17	15	1	:::	:::	:::
3,000 to 9,999 acre-feetorganizations 10,000 to 29,999 acre-feetorganizations	3	2	:::		:::	:::	
30,000 to 99,999 acre-feetorganizations 100,000 or more acre-feetorganizations	2	:::		:::		:::	:::
Size of organization (acre-feet of water conveyed):							
Noneorganizations 1 to 299 acre-feetorganizations	135	119	 15		:::		:::
300 to 999 acre-feetorganizations 1,000 to 2,999 acra-feetorganizations	79 35	65 24	14 9		:::		:::
3,000 to 9,999 acre-feetorganizations 10,000 to 29,999 acre-feetorganizations	8	6 1	1	1	:::		:::
30,000 to 99,999 acre-feetorganizations 100,000 or more acre-feetorganizatious	2	:::	:::				:::

Water was transferred to the basin and released to natural stream channels in excess of the quantity of surface water withdrawn by irrigation organizations. The net effect was to increase the available surface water supply in the basin or State.

			Ari	mansas River (VI-	3)		
Item		Mut	ual		U. S. Bureau	of Reclamation	Commercial.
(For definitions and explanations, see text)	All types	Unincorporated	Incorporated	District	Projects and storage systems operated by bureau	Operated by water users	Indian, State, city, and other
Irrigation organizationsorganizations 1959	67 84	60 58	5 25	2	 1		::
Service area, 1959: Area served, as reported by organizations	81,171	22,274	(D)	(D)		(D)	
by organizationsacres	62,649	14,616	(D)	(D)		(D)	
Water users served, 1959, total	1,422 1,301 120 1	898 777 120 1	(D) (D) 	(D) 	:::	(D)	
TYPE OF SERVICE, 1959							
All water directly from surface and ground water sources	63 149,926 87,431	56 27,449 20,922 53	5 (D) (D)	(D) (D)		(D) (D)	::
acre-feet	85,705	19,196	(D)	(D)		(D)	
To farm and residential users and other irrigation organizationsorganizations Water to farm and residential	3	3					
usersacre-feet Water to other irrigation organizationsacre-feet	1,287 439	1,287					
To other irrigation organizations organizations							
Part of water from other organizations	4 4,456	4 4,456					
From surface and ground water sourcesacre-feet	3,213	3,213					
From other irrigation organizationsacre-feet Water deliveredacre-feet To farm and residential users onlyorganizations	1,243 3,616	1,243 3,616			:::		::
acre-feet	1,132	1,132					
To farm and residential users and other irrigation organizationsorganizations Water to farm and residential usersacre-feet	1,680	1,680					
Water to other irrigation organizationsacre-feet	804	804					
To other irrigation organizations onlyorganizations scre-feet		:::		:::	:::	:::	::
All of water from other organizationsorganizations Total water conveyed							::
To farm and residential users onlyorganizations acre-feet						:::	::
To farm and residential users and other irrigation organizationsorganizations Water to farm and residential							
water to other irrigation							
organizationsacre-feet To other irrigation organizations onlyorganizations	***						
No water conveyedorganizations WATER FROM OTHER SOURCES	•••	:::	:::	:::	:::	:::	::
Organizations reporting no mater from other sources used on the land served by the organization	66 80,821 62,399 88,703	59 21,924 14,366 22,194	(D) (D) (D)	2 (D) (D) (D)		 	
organizations reporting water from other sources used on land served by the	1.4	1.5	1.2	1.4	•••	•••	
organization	350 250 397 1.6	350 250 397 1.6		:::			
NEW CAPITAL INVESTMENT, 1950-1959 Expenditures for additional new works and equipment for irrigation and dreinage, January 1, 1950-becember 31, 1959	29 569,740 45,916	25 32,860	3 (ū)	1 (Ď)	:::	(D) 	::

NEW MEXICO

	Arkanssa River (VI-B)								
Item (For definitions and explanations, see text)		Mut	ual		U. S. Bureau of Reclamation		Commercial.		
(FO) details and expendence, see sere,	All types	Unincorporated	Incorporated	District	Projects and storage systems operated by bureau	Operated by water users	Indian, State city, and othe		
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959									
otal entering conveyance systemsorganizations acre-feet	153,139	60 30,662	(D)	(D)	:::	(D)	:		
From another drainage basinorganizations	1 480	1 480							
From drainage basin									
From sources within basinorganizations	67 152,659	60 30,182	5 (D)	2 (D)	:::	(D)	ļ		
Surface waterorganizations	67 152,659	60 30,182	5 (D)	(D)		(D)			
Ground waterorganizations acre-feet		:::			:::				
From other organizations in the basin organizations receiving	1,243	4 1,243							
otal leaving conveyance systemsorganizations	67 153,139	60 30,662	5 (D)	2 (D)		2 (D)			
Conveyance loss in basinorganizations	66 62,435	59 6,467	5 (D)	2 (D)	:::	(D)			
Conveyed to another drainage basinorganizations			:::	:::	:::	:::			
To drainage basin numberD. B. No				:::					
Delivered for use in the basinorganizations acre-feet	67 90,704	60 24,195	5 (D)	(D)		2 (D)	}		
To farm irrigation water usersorganizations	67 89,100	60 22,591	5 (D)	(D)	:::	(D)			
To domestic water usersorganizations	13 704	13 704		1					
For other use	900	900							
Delivered to other strigation organizations delivering. organizations delivering acre-feet	1,243	1,243				 	:		
SIZE OF ORGANIZATION, 1959									
ize of organization (number of farm trrigation water neers): None	1 15 11 32 7	1 14 11 29 5 	(D) (D) (D) (D) (D)	(D) (D) (D) (D) (D) 		(D) (D) (D) (D) (D) (D)			
ize of organization (acre-feet of water belivered directly to farme): 10 c 299 acre-feet	35 24 4 3 	34 22 3 1	(D) (D) (D) (D)	(D)		(D) (D) (D) (D) (D) (D) (D)			
ize of organization (acre-feet of mater conveyed): None	30 25 7 3 1	29 24 5 2	(D) (D) (D) (D) (D)	(D) (D) (D) (D) (D) (D)		(D) (D) (D) (D) (D) (D)			

D Data not shown to avoid disclosure of information for individual organizations.

State Table 5.-NUMBER OF IRRIGATION ORGANIZATIONS, TYPE OF SERVICE, NEW CAPITAL INVESTMENT,

Item		New Mexic	o, total		Colorado River above Lees Ferry excluding Green and Gunnison Rivers (IV-D)						
(For definitions and explanations, see text)			Size of or	ganization,	by total water		-2)				
	0-999 acre-feet	1,000- 9,999 acre-feet	10,000- 99,999 acre-feet	100,000 or more acre-feet	0-999 acre-feet	1,000- 9,999 acre-feet	10,000- 99,999 acre-feet	100,000 or more acre-fee			
Number of organizationsorganizations TYPE OF SERVICE	336	95	13	3	16	17	6				
All water directly from surface and ground sourcesorganizations	326	87	12	3	16	16	6				
Total water conveyed	89,747 75,644	220,640 171,963	323,287 228,806	785,733 455,956	4,477 3,694	56,251 45,273	145,186 98,392				
To farm and residential users onlyorganizations acre-feet	73,918	81 159,978	10 213,396	2 261,531	16 3,694	16 45,273	82 ,9 82	:			
To farm and residential users and other irrigation organizations	3	6	,	,	·	·	,				
Water to farm and residential usersacre-feet Water to other irrigation organizationsacre-feet	1,287 439	8,383 3,602	11,559 3,851	163,150 31,275			11,559 3,851				
To other irrigation organizations onlyorganizations acre-feet											
Part of water from other organizationsorganizations	4	6	1								
Total water conveyed	2,031 573	20,573 3,053	10,400 1-3,400	:::		:::					
From other irrigation organizationsacre-feet Water deliveredacre-fect	1,458 1,680	17,520 11,184	13,800 6,200								
To farm and residential users onlyorganizations	1,680	8,700	6,200								
To farm and residential users and other irrigation organizationsorganizations	1,000	0,,00	0,200	l							
rrigation organizations	:::	1,680		:::			• • • •				
To other irrigation organizations onlyorganizations	:::	804	:::	:::	:::	:::	:::				
acre-feet All of water from other organizationsorganizations											
Total water conveyedacre-feet	2,342	4,851 3,000			:::	3,851 2,100	:::				
To farm and residential users onlyorganizations	5	. 2	:::	:::		1	:::				
To farm and residential users and other	2,000	3,000				2,100					
irrigation organizationsorganizations Water to farm and residential usersacre-feet					:::		:::				
Water to other irrigation organizationsacre-feet To other irrigation organizations onlyorganizations	:::			:::							
acre-feet											
No water conveyedorganizations WATER FROM OTHER SOURCES	1	•••					• • • • • • • • • • • • • • • • • • • •				
Organizations reporting NO water from other sources used				_							
on land served by the organizationorganizations acres served	332 70,247	94 116,018	56,062	199,031	16 4,859	22,606	6 27,634				
acres irrigated Organizations reporting water from other sources used	45,861	90,216	45,266	169,310	2,027	18,556	21,646				
on land served by the organizationorganizations	2,238	1 2,500	27,805								
acrea servec acrea irrigated	1,058	2,000	22,432	:::	:::		:::				
NEW CAPITAL INVESTMENT, 1950-1959											
Expenditures for additional new works and equipment for irrigation and drainage,											
Jenuary 1, 1950-December 31, 1959organizations dollars	1,191,952	560,835	148,735	11,764,740	6,201	10 135,750	22,863				
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959											
Total entering conveyance systems in basinorganizations acre-feet	335 90,320	95 223,693	13 319,887	785,733	16 4,477	17 56,251	6 145,186				
From another drainage basinorganizations acre-feet	1 242	· · · ·	1,661		1 242		1,661				
From Drainage Basin Number D. B. No	329	93	12		15	16					
acre-feet Surface waterorganizations	90,078	223,693	318,226	785,733	4,235 13	56,251 16	143,525				
acre-feet	86,772	221,161	305,586	759,233	4,219	56,251	143,525				
Ground waterorganizations acre-feet	3,306	2,532	12,640	26,500	16		:::				
From other organisations in the basinorganisations receiving acre-feet	3,800	22,371	13,800	:::	:::	3,851	:::				
Total leaving conveyance systemsorganizations acre-feet	335 93,681	95 241,658	13 329,836	754,458	16 4.477	17 60,102	6 141,335				
Conveyance loss in basinorganizations	314	93	13	3	14 783	17 10,709	6 41,947				
acre-feet Conveyed to another drainage basinorganizations	14,346	55,178	92,841	329,777		***					
To drainage basin number	335	95	13								
Delivered for use in the basinorganizations acrs-feet	79,335	186,480	236,995	424,681	16 3,694	17 49,393	99,388				
To farm irrigation water useraorganizations acre-feet	334 77,611	95 178,294	221,580	423,132	16 3,694	17 46,406	85,296				
To residential water usersorganizations acre-feet	46 1,274	24 3,447	9,575	1,549		5 9 67	9,245				
For other useorganizations	2 450	7 4,739	5,840	· :::		2,020	3 4,847				
Delivered to other irrigation organizations organizations deliverence or	3 439	7 4,406	3,851	31,275			3,851				
AVERAGE DELIVERY OF IRRIGATION WATER PER ACRE, 1959		.,	-,552	,		'''	2,001				
Per acre irrigated, as reported by irrigation organization:	1.7	2.0	3.7	2.5	1.9	2.5	6.4				
All organizations	332										
on land served by the organizationorganizations acre-feet	1.7	94 2.0	3.7	2,5	16 1.9	17 : 2.5	6 5.1				

Water was transferred to the basin and released to natural stream channels in excess of the quantity of surface water withdrawn by irrigation organizations. The net effect was to increase the available surface water supply in the basin or State.

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NEW MEXICO

AND WATER CONVEYED, BY SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUS OF 1959

Rio	Grande below H	Fort Quitman, T	lexas	Rio Grande F	River above Fort Qui	tman, Texas	Arkanse	a River
	(V-	В)			(V-C)		(vi	-B)
0-999 acre-feet	1,000-	10,000- 99,999 acre-feet	100,000 or more scre-feet	0-999 acre-feet	1,000- 9,999 acre-feet	10,000 or more scre-feet	0-999 acre-feet	1,000 or more acre-feet
43	acre-feet 12	acre-reet 3	scre-reet	214	43	3	55	12
40 11,106 9,016 40 9,016	12 33,651 24,247 10 18,242	144,549 105,259 3 105,259		210 56,611 48,252 209 48,252	37 75,865 57,661 33 51,681	2 682,987 403,975 1 209,550	52: 14,381 11,606 49 9,880	11 - 135,545 75,825 11 75,825
 	5,340 665 	:::	 	 	3,043 2,937	1 163,150 31,275 	3 1,287 439 	::: ::: :::
1 618 253 365 548 1 548		···	 	 	5 17,530 160 17,370 8,700 5 8,700	1 10,400 1-3,400 13,800 6,200 1 6,200	3 1,413 320 1,093 1,132 3 1,132	1 3,043 2,893 150 2,484
 1 300 290	:::	:::	····	 4 2,042 1,710	1,000 900 1		:::	1,680 804
290	:::			1,710			:::	:::
41 7,857 4,766	12 15,337 12,077	15,526 15,000	:::	213 44,052 30,561	42 49,014 36,968	3 162,190 134,980	54 13,203 7,936	12 67,618 54,463
1,800 720		25,055 19,682	···	1 88 88	2,500 2,000		1 350 250	
21 1,041,875	10 213,950	125,872	:::	98 111, <i>3</i> 60	100,705	11,195,000	21 13,816	8 601,840
42 11,359 41 11,359 10,849 2 510 2 665 42 12,024 41,720 42 9,683 7 7 7 7 7 7 7 171 2 450	12 33,651 12 33,651 12 33,651 11 12 32,966 11 11 12 25,065 12 23,562 14 20 20 21 21 22 23,662 24 25 26 26 27 26 26 26 26 26 26 26 26 26 26	3 144,549		214 56,611 220 56,611 206 53,831 13 2,780 4 2,042 214 55,653 197 8,211 480 24,962 212 49,135	43 76,025 42 76,025 41 74,150 21,875 6,65 18,370 43 91,458 42 26,798 43 64,660 43 62,370 15 1,994 2,937	3679,587	55 14,701 1,800 55 14,221 3 1,093 55 15,335 5,3056 55 12,299 15,299 15,335 12,333 1,036 55 12,339	12 138,438
1.8 41 2.0	1.9 12 1.9	3.0 2 2.3		1.6 213 1.6	1.6 42 1.7	2.8 3 2.8	1.5 54 1.5	1.4 12 1.4;

NORTH DAKOTA

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State Table 1.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950

The State	Item (For definitions and explanations, see text)	The State	Item (For definitions and explanations, see text)
	WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959—Continued	47,656	Total acres irrigated in Census year
9	Total leaving conveyance systemsorganizations	35,759	1949
108,724	acre-feet	12	Irrigation organizationsorganizations 1959
. 5	Conveyance loss in basinorganizations	6	1949
-	,	Ü	Service area, 1959:
36,802	acre-feet	44,958	Farm area reported served, by organizationsacres 1959
	Conveyed to another drainage basinorganizations	39,849	Farm area reported irrigated, by organizationsacres 1959
	acre-feet	234	Water users served, totalwater users 1959
	To drainage basin number	234	Farm irrigation water userswater users 1959
			Residential water userswater users 1959
9	Delivered for use in the basinorganizations		Other water userswater usera 1959
71,922	acre-feet		LAND IRRIGATED BY SOURCE OF WATER, 1959
9	To farm irrigation water usersorganizations	973	Ground water sourcesacres
71,922	Bore-feet	46,683	Surface water sourcesacres
11,922	acre-regt		WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959
	To residential water usersorganizations	9	Total entering conveyance systems in basinorganizations
	acre-feet	108,724	acre-feet
		1	From another drainage basinorganizations
	For other useorganizations	100,000	acre-feet
	acre-feet		From drainage basin number
	Delivered to other uragation	9	From natural sources within basinorganizations
•••	organizations	8,724	acre-feet
	acre-feet	9	Surface waterorganizations
	AVERAGE DELIVERY OF IRRIGATION WATER PER ACRE, 1959	8,724	acre-feet
1.8	Per acre irrigated as reported by organizationsacre-feet	,	Ground waterorganizations
	NEW CAPITAL INVESTMENT, 1950-1959	•••	acre-feet
5	Expenditures for additional new works and equipment for irrigation and drainage, January 1, 1950-December 31, 1959organizations	•••	
			From other organizations in the basin
613,767	dollars		acre-feet

State Table 2.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION. BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950

Item	North Dakota, total	Item	North Dakots, total
(For definitions and explanations, see text)		(For definitions and explanations, see text)	
Irrigation organizations, total mumber	12	TYPE OF SERVICE, 1959 All water directly from surface and	
Area irrigated as reported by	6	ground water sourcesorganizations Total water conveyedacre-feet	9 108,724
organizationsacres 1959	39,849 34,405	Water deliveredacre-feet	71,922
Farm water users served directlywater users 1959 Total water conveyedacre-feet 1959	234 108,724	To farm and residential organizations organizations acre-feet	9 71,922
TYPE OF ORGANIZATION		To farm and residential users and other irrigation organizationsorganizations	
Mutual: Unincorporatedorganizations 1959	1	Water to farm and residential usersacre-feet	•••
1949 Farm area irrigated directlyacres 1959	(D)	Water to other irrigation	
Farm water users served directlywater users 1959	(D) (D)	organizations	
Total water conveyedacre-feet 1959	(b)	acre-feet	
Incorporatedorganizations 1959	1 (D)	Part of water from other organizationsorganizations	
Farm water users served	(D)	Total water conveyed	
directlywater users 1959 Total water conveyedacre-feet 1959	(Ď)	sourcesacre-feet From other irrigation	
Districtorganizations 1959	6 4	organizationsacre-feet Water deliveredacre-feet	
Farm water users served	(D)	To farm and residential users onlyorganizations	
directlywater users 1959 Total water conveyedacre-feet 1959	(D)	acre-feet To farm and residential users and other	
U.S. Bureau of Reclamation; projects and stor-	, ,	irrigation organizationsorganizations Water to farm and residential usersacre-feet	
age systems operated by bureauorganizations 1959	3	Water to other irrigation organizationsacre-feet	
Farm area irrigated directlyacres 1959 Farm water users served	1,319	To other irrigation organizations onlyorganizations	
directlywater users 1959 Total water conveyedacre-feet 1959	3,908	acre-feet	
U. S. Bureau of Reclamation, operated by water users	4	organizationsorganizations Total water convevedacre-feet	:::
Farm area irrigated directly acres 1959	25,376	Water deliveredacre-feet	
Farm water users served directly	122	To farm and residential users onlyorganizations	
Total water conveyedacre-feet 1959	90,052	acre-feet To farm and residential users and other	
U. S. Bureau of Indian Affairsorganizations 1959		irrigation organizationsorganizations Water to farm residential	
Farm area irrigated directlyacrea 1959 Farm water users served		usersacre-feet Water to other irrigation	
directlywater users 1959 Total water conveyedacre-feet 1959		organizations	
Commercialorganizations 1959		only acre-feet	
1949 Farm area irrigated directlyacres 1959		No water conveyedorganizations	3
Farm water users served directly		WATER FROM OTHER SOURCES	
Total water conveyedacre-feet 1959		Organizations reporting NO water from other sources used on land served by the organization	
Stateorganizations 1959	1	acres served	80,203 72,012
Farm area irrigated directlyacres 1959 Farm water users served		Water delivered to farmsacre-feet	152,922
directlywater users 1959 Total water conveyedacre-feet 1959	•••	acre-feet per acre Organizations reporting water from other	2.3
Cityorganizations 1959	1	sources used on land served by the organizationorganizations	
Farm area irrigated directlyacres 1959		acres served acres irrigated	
Farm water users served directly water users 1959 Total water conveyed acre-feet 1959		Water delivered to farmsacre-feet acre-feet per acre	
Total water conveyedacre-feet 1959	***	doze-reet per acre	···

D Data not shown to avoid disclosure of information for individual organizations.

State Table 2.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Continued

Item (For definitions and explanations, see text)	North Dakota, total	Item (For definitions and explanations, see text)	North Dakota, total
WATER DELIVERED PER ACRE Organizations reporting NO water from		SIZE OF GRGANIZATION—Continued Size of organization (acre-feet of water	
other sources used on same land: O.1 to 0.9 acre-feet per acreorganizations acres irrigated	2 7.375	delivered directly to farms): Nome	3
1.0 to 1.9 acre-feet per acreorganization 2.0 to 2.9 acre-feet per acreorganization acres irrigated acres irrigated 3.0 to 3.9 acre-feet per acreorganizations organizations	4 15,001 2 48,465	l to 299 acre-feet	1 154 2 1,228
4.0 to 4.9 acre-feet per acre. organizations 5.0 to 5.9 acre-feet per acre. organizations acres irrigated. 6.0 to 6.9 acre-feet per acre. organizations acres irrigated. 7.0 to 6.9 acre-feet per acre. organizations	1,171 	1,000 to 2,999 sere-feetorganizations acre-feetarganizations sere-feetarganizations	 4 19,322
6.0 to 6.9 acre-feet per acre	:::	10,000 to 29,999 acre-feet organizations scre-feet 30,000 to 99,999 acre-feet organizations acre-feet 100,000 or more scre-feet organizations organizations	1 16,218
10.0 or more acre-feet per acreorganizations acres irrigated	:::	acre-feet	116,000
SIZE OF ORGANIZATION Size of organization (number of farm irrigation water users served directly): None	3 1 3	Size of organization (acre-feet of water conveyed): Name	3 1 154 2 1,410
4 to 9	2 12 4 71	1,000 to 2,999 acre-feetorganizationsacre-feet 3,000 to 9,999 acre-feetorganizations.	
30 to 99organizations water users 100 to 299organizations	1 51	acre-feet	21,870
water users 300 to 999organizations		10,000 to 29,999 acre-feet	20,290
1,000 or more	338	acre-feetorganizations	1 212,000

State Table 3.-LAND IRRIGATED BY SOURCE OF WATER, BY DRAINAGE BASINS: CENSUS OF 1959

Item (For definitions and explanations, see text)	North Dakota, total	Item (For definitions and explanations, see text)	North Dakota, total
Total acres irrigated	471	LAND IRRIGATED BY SOURCE OF WATER TO INDIVIDUAL FARMS 1959—Continued	
acres	47,656	Surface sources on farmfarms reporting	156
Acres irrigated by sprinklersfarms reporting	101	acres	9,799
acres	3,880	Surface sources on farm onlyfarms reporting	151
Sprinklers onlyfarms reporting	83	acres Irrigation organization sources	9,145 295
acres	3,263	acres	36,884
TANK THE TANK OF THE PARTY OF THE TANK OF		Irrigation organizations sources only	290
LAND IRRIGATED, BY SOURCE OF WATER TO INDIVIDUAL FARMS, 1959		acres	36,017
Ground water sources on farmfarms reporting	25	Both farm ground water sources	,
acres	973	and surface sourcesfarms reporting	1
Ground water sources on farm onlyfarms reporting	24	acres Both irrigation organization and farm ground	45
		water or farm surface sourcesfarms reporting	5
acres	943	acres	1,506

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950

			No	orth Dakota, total			
Item (For definitions and explanations, see text)		Mut	ual		U. S. Bureau o	of Reclamation	Commercial,
(FOI GELIILOSON) GEN CAPAGROSONS VOO TII-)	All types	Unincorporated	Incorporated	District	Projects and storage systems onerated by bureau	Operated by water users	Indian, State, city, and other
Irrigation organizationsorganizations 1959	12 6	1	1	6 4	3		1
Service area, 1959: Area served, as reported	44.958	(D)	(D)	(D)	2,039	28,740	
by organizationsacres Area irrigated, as reported	,		·				
by organizationsacres	39,849	(D)	(D) (D)	(D)	1,319	25,376 122	
Water users served, 1959, total. water users. Farm irrigation water users: water users. Residential water users water users. Other water users. water users.	234	(D)	(D)	(D)	20	122	
TYPE OF SERVICE, 1959							
All water directly from surface and ground water sources	9 108,724 71,922	(D) (D)	(D) (D)	6 (D) (D)	3,908 3,160	90,052 55,980	
onlyorganizations	71,922	(D)	(D)	(D)	3,160	55 ,98 0	
To farm and residential users and other irrigation organizationsorganizations Water to farm and residential							
water to other irrigation			•				
organizationsacre-feet To other irrigation organizations							
onlyorganizations acre-feet		:::				:::	
Part of water from other organizationsorganizations Total water conveyedorrefeet From surface and ground water	:::	:::	:::	:::	:::	:::	:::
sourcesacre-feet					•••		:::
From other irrigation organizationsacre-feet Water deliveredacre-feet To farm and residential users onlyorganizations				:::			
acre-feet To farm and residential users and other							
irrigation organizationsorganizations Water to farm and residential users							
Water to other irrigation organizationsacre-feet							
To other irrigation organizations onlyorganizations							
acre-feet All of water from other organizationsorganizations							
Total water conveyedacre-feet Water deliveredacre-feet					:::	:::	
To farm and residential users onlyorganizations acre-feet							
To farm and residential users and other irrigation organizationsorganizations							
Water to farm and residential usersacre-feet Water to other irrigation							
organizationsacre-feet To other irrigation organizations							
onlyorganizations				:::			
No water conveyedorganizations	3				2	1	1
WATER FROM OTHER SCURCES Organizations reporting no water from other sources used on the land served by the	9					3	
organizationorganizations acres served acres irrigated water delivered to farms (acre-feet) acre-feet per acre	80,203 72,012 152,922 2.1	(D) (D) (D) (D)	(D) (D) (D) (D)	(D) (D) (D)	2,039 1,319 3,160 2.4	63,985 57,539 136,980 2.4	
Organizations reporting water from other sources used on land served by the organization				:::	:::	:::	:::
acres irrigated water delivered to farms (acre-feet) acre-feet per acre	•••	:::					
NEW CAFITAL INVESTMENT, 1950-1959 Expenditures for additional new works and equipment for irrigation and drainage, January 1, 1950-lecember 31, 1959organizations. By U. S. B. R	5 566,860 46,907	:::		3 505,510 6,257	61,350	2 505,510 40,650	1 40,650

			No	orth Dakota, total	L		
Item (For definitions and explanations, see text)		Mut	ual		U. S. Buresu	of Reclamation	Commercial,
(FOI GETHIETING MAS CAPTAINS AND THE THEORY	All types	Unincorporated	Incorporated	District	Projects and storage systems operated by bureau	Operated by	Indian, State, city, and other
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959							
Total entering conveyance systemsorganizations acre-feet	108,724	(D)	(D)	6 (D)	3,908	90,052	
From another drainage basinorganizations acre-feet	100,000			1 (D)		100,000	
From drainage basin,	• • •					***	
From sources within basinorganizations acre-feet	8,724	(D)	(D)	(D)	3,908	1 _{-9,948}	
Surface waterorganizations acre-feet Ground waterorganizations	8,724	(D)	(D)	(D)	3,908	1-9,948	
acre-feet		:::					
From other organizations in the basin organizations receiving acre-feet		:::		:::	:::		
Total leaving conveyance systemsorganizations acre-feet	9 108,724	(D)	1 (D)	(D)	3,908	90,D52	:::
Conveyance loss in basinorganizations	5 36,802	:::		4 36,054	1 748	2 34,072	:::
Conveyed to another drainage basinorganizations acre-feet			:::				:::
To drainage basin number	• • •						
Delivered for use in the basinorganizations acre-feet	71,922	(D)	(D)	(D)	3,160	55,980	:::
To farm irrigation water usersorganizations acre-feet	71,922	(D)	(D)	(D)	3,160	55,980	
To domestic water usersorganizations		:::			***		
For other useorganizations acre-feet	:::				:::		
Delivered to other strigation organizations delivering acre-feet						:::	
SIZE OF ORGANIZATION, 1959							
Size of organization (number of farm irrigation water users): organizations. Hone. organizations. 1 to 3 water users. organizations. 4 to 9 water users. organizations. 10 to 29 water users. organizations. 30 to 99 water users. organizations. 100 to 299 water users. organizations. 300 to 999 water users. organizations. 1,000 or nore water users. organizations.	4 1 2 3 3 1	(D) (D) (D) (D) (D)	(D) (D) (D) (D) (D)	(D) (D) (D) (D) (D) (D)	2	 1 1 1 	
Size of organization (acre-feet of water delivered directly to farum): None	3 1 2 2 4 1	(D) (D) (D) (D) (D)	(D) (D) (D) (D) (D)	(D) (D) (D) (D) (D) (D) (D) (D)	2 1 	 1 1	
Size of organization (acre-feet of water conveyed): None	3 1 2 4 1	(D) (D) (D) (D) (D) (D)	(D) (D) (D) (D) (D)	(D) (D) (D) (D) (D) (D)	2 1 	 1 1 1	

D Data not shown to avoid disclosure of information for individual organizations.

**Fatter was transferred to the basin and released to natural stream channels in excess of the quantity of surface water withdrawn by irrigation organizations. The net effect was to increase the available surface water apply in the basin or State.

State Table 5.—NUMBER OF IRRIGATION ORGANIZATIONS, TYPE OF SERVICE, NEW CAPITAL INVESTMENT. AND WATER CONVEYED, BY SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUS OF 1959

All water directly from nursees and organizations ground accessed and organizations accessed						
(For definitions and explanation, see text) 0.999 1,000 or more surre-feet s		North Dak	ote, total		North Dako	ta, total
masher of organizations. Organizatio						
All water directly from surface and companisations of the companis						
All seter directly from surface and opposite tions. Total water conveyed: acre-feet. 3,022 To farm and residential users and other irrigation organizations. To farm and residential users and other irrigation organizations. Water to tother irrigation organizations. To farm and residential users and other irrigation organizations. Water to tother irrigation organizations. To to the irrigation organizations. To other irrigation organizations. To othe	Number of organizationsorganizations	6	6	WATER FROM OTHER SOURCES		
ATTRECOVERY From surface and granizations of g	TYPE OF SERVICE					
Total water conveyed	All water directly from surface and	3	6	organizationorganizations		70 01/
To farm and residential users organizations. only	Total water conveyedacre-feet	1,564	107,160	acres irrigated	1,154	70,858
only organizations 3 corrected 1,382 70,340 To farm and residential users and other irrigation organizations where to farm and residential users are other organizations organizations organizations organizations only organizations only organizations organizations only organizations		1,302	70,540			
To farm and residential users and other irrigation organizations. Organizations where to the raring and other organizations orga	onlyorganizations			by the organizationorganizations		
Water to there irrigation organizations. Water to the and residential users and other and residential users and residential users. Water to charm all residential users and other irrigation organizations. Organizations. From other irrigation organizations. From other irrigation organizations. From other organizations. From other organizations. Organizations. From other organizations. From other irrigation organizations. From other organizations. From other irrigation organizations. From other irrigation organizations. From other irrigation organizations. From other irrigation organizations. From other irrigation organizations. Organizations. All of water from other organizations. Organizatio		1,382	70,540			
Water to other irrigation organizations orga	To farm and residential users and other irrigation organizationsorganizations			NEW CAPITAL INVESTMENT, 1950-1959		
Water to other irrigation organizations aere-feet organizations only content trigation organizations of the trigation organizations of the trigation organizations of the trigation organizations orga						
To other irrigation organizations only. organizations acre-feet. Fart of water free other organizations. organizations. acre-feet. From surface and ground water sources. From surface and ground water sources. From other irrigation organizations. acre-feet. From other irrigation organizations. To farm and residential users and other irrigation organizations only. organizations acre-feet. To the rain and residential users organizations. To other irrigation organizations only. organizations only. organizations only. To farm and residential users organizations only. organizations only. organizations only. To farm and residential users only organizations only. To farm and residential users only organizations only. To farm and residential users only organizations. To other irrigation organizations only. To farm and residential users only organizations only. To farm and residential users only organizations only. To other irrigation organizations organizations only. To other irrigation organizations organizations only. To other irrigation organizations organizations. To farm and residential users only organizations. To farm and residential users only organizations. To farm and residential users only organizations. To farm and residential users only organizations. To farm and residential users only organizations. To farm and residential users only organizations. To farm and residential users only organizations. To farm and residential users only organizations. To farm and residential users only organizations. To farm and residential users only other organizations. To farm and residential users only organizations. To farm and residential users only organizations. To farm and residential users only organizations. To farm and residential users only other organizations. To farm and residential users only organizations. To farm and residential users only other organizations. To farm and residential users only other organizations. To farm and residential users only other organizations. To	Water to other irrigation			Jan. 1, 1950-Dec.31, 1959organizations		570.060
only					45,707	370,000
Part of water from other organizations. Total water conveyed. Total water conveyed. Associated and ground water Sources. Sources. Sources. Associated and ground water Sources. S	onlyorganizations					
Total mater conveyed. Services acrefect. From another drainage basin. Organizations corrects. From sources acrefect. From sources stiffin organizations. Water delivered. To farm and residential users and other irrigation organizations. Water to farm and residential users organizations. Water to form and residential users organizations. To the irrigation organizations. Organizations. To the irrigation organizations. Organizations. To date from other organizations. Organizations. To date from other organizations. Organizations. Organizations. Organizations. Organizations. To other irrigation organizations. Organi				in basinorganizations	66 56/	/2 760
From surface and ground water sources: Sources: From other irrigation organizations. Surface water. From other irrigation organizations. Surface water. Surf				From another drainage basinorganizations		1
From other irrigation organizations.				From Drainage Basin number B. No		100,000
Surface water. Surf	From other irrigation		1		. 3	6
To farm and residential users only	=				3	7,160 6
org-feet. care-feet. c	To farm and residential users				,	7,160
To farm and residential users and other irrigation organizations. Water to farm and residential users and other irrigation organizations. Total leaving conveyance systems pranizations. Water to farm and residential users and other irrigation organizations. To other irrigation organizations. To other irrigation organizations. To other irrigation organizations. To drainage basin number. To drainage basin number. To drainage basin number. To drainage basin number. To drainage basin number. To drainage basin number. To farm and residential users organizations. To farm and residential users and other irrigation organizations. To farm and residential users and other irrigation organizations. To farm and residential users and other irrigation organizations. Water to other irrigation organizations. To farm and residential users and other irrigation organizations. To farm and residential users and other irrigation organizations. To farm and residential users and other irrigation organizations. To farm and residential users and other irrigation organizations. To farm and residential users and other irrigation organizations. To the residential users and other irrigation organizations. To the residential users and other irrigation organizations. To the residential users and other irrigation organizations. To other irrigation o				acre-feet		
Water to farm and residential users. acre-feet. 66,564 42,166 users. acre-feet. Conveyage loss in besin. organizations. 1 Water to other irrigation organizations. acre-feet. 182 36,667 Conveyed to another drainage basin. organizations. To other irrigation organizations. To other irrigation organizations. To drainage basin number. 0. B. No. 0 Delivered for use in the basin. organizations. 1,382 Total water conveyed. organizations. 1,382 Total water conveyed. organizations. 3 Total water delivered. organizations. 1,382 To farm and residential users only. organizations. 0 To farm and residential users only. organizations. 0 To farm and residential users and other organizations. 0 To farm and residential users and other organizations. 0 To farm and residential users and other organizations. 0 To farm and residential acre-feet. 0 To residential users and other organizations. 0 To farm and residential acre-feet. 0 To farm and residential organizations. 0 To the residential users and other organizations. 0 To the residential users organizations. 0 To other irrigation organizations. 0 To other irrigation organizations organizations. 0 To other irrigation organizations organizations. 0 To other irrigation organizations organizations organizations. 0 To other irrigation organizations organ	To farm and residential users and other					:::
wers. acre-feet. Water to other irrigation organizations acre-feet. To other irrigation organizations organizations acre-feet. To other irrigation organizations organizations organizations. All of water from other organizations organizations. To drainage basin number. 0.0. h No. 0.0 in the basin. acre-feet. Delivered for use in the basin. acre-feet. 1,382 70,544 in the basin organizations. To farm and residential users organizations. To farm and residential users and other irrigation organizations. organizations. Water delivered. To farm and residential users and other irrigation organizations. organizations. organizations organizations. Water to farm and residential users and other irrigation organizations. Organizations. organizations.		• • • •				42.160
organizations acre-feet Conveyed to another drainage basin number. She No. 1 care-feet. Delivered for use in the basin number. She No. 2 care-feet. Delivered for use in the basin number. She No. 3 care-feet. She not not not not not not not not not not				Conveyance loss in basinorganizations	1	4
To other irrigation organizations organizations only. To drainage basin number. D. B. No. 2 acre-feet. Delivered for use in the basin organizations. 3 care-feet. 3,382 70,564 acre from other organizations organizations. 4 To farm irrigation water users organizations. 3 care-feet. 5 To farm irrigation water users. 2 organizations. 5 To farm and residential users only. 5 organizations organizations. 5 To residential users only. 6 organizations. 70,544 organizations. 70,545 organizations. 70,545 organizations. 70,545 organizations. 70,546 organiza				Conveyed to another drainage		
acre-feet. All of water from other organizations. To farm irrigation water users. To farm and residential users and other irrigation organizations. Water to conveyed. To farm and residential users and other irrigation organizations. To farm and residential users and other users. To farm and residential users and other users. To farm and residential users and other users. To farm and residential users and other users. To farm and residential users and other users. To farm and residential users and other users. To farm and residential users and other users. To farm and residential users and other users. To farm and residential users and other users. To farm and residential users and other users. To farm and residential users and other users. To farm and residential users and other users. To farm and residential users and other users. To farm and residential users and other users. To farm and residential users and other users. To farm and residential users and other users. To farm and residential users and other users. To farm and residential users and other users. To farm and residential users and other users. To farm irrigation organizations. AVENAGE DELIVENY OF IRRIGATION WATER PER AGRE, 1959 Per acre irrigated, as reported by irrigation organizations. To other irrigation organizations. All organizations. Acrefeet. All of user from users used on the same land and and organizations. To description. To farm irrigation users users. To farm irrigation users users. To farm irrigation users. To farm irrigation users. To farm irrigation users. To farm irrigation users. To farm irrigation users. To farm irrigation users. To farm irrigation users. To farm irrigation users. To farm irrigation users. To farm irrigation users. To farm irrigation users. To farm irrigation users. To farm irrigation users. To farm irrigation users. To farm irrigation users. To residential users. To residential users. To residential users. To residential users. To residential users. To residen				acre-feet		
All of water from other organizations organizations of the conveyed of the con	onlyorganizations acre-feet			To drainage basin number	3	6
To take the conveyed	All of water from other organizationsorganizations				3	6
To farm and residential users organizations. acref et. To farm and residential users and other sirrigation organizations. Water to farm and residential organizations. Water to farm and residential acrefeet. Water to farm and residential acrefeet. Water to come acrefeet. Water to other irrigation organizations organizations organizations for the use. Peluverd to other use. AVERAGE DELIVERY OF IRRIGATION WATER PER ACRE, 1959 Per sore irrigated, as reported by irrigation organizations organizations Organizations Organizations Organizations only. Organizations only. Organizations other sources used on the same land and proporting. 3 descriptions organizations. 3 descriptions other sources used on the same land and proporting. 3 descriptions organizations. Organizations. 3 descriptions Organizations.				scre-feet		70,540
acre-fect. To farm and residential users and other organizations. Water to farm and residential users and other organizations. Water to farm and residential need of the control of the	To farm and residential users			scre-feet		
To farm and residential users and other irrigation organizations. Water to farm and residential acresses acres				acre-feet		:::
irrigation organizations. organizations. Water to fars and residential Interest to other irrigation acre-feet Water to other irrigation acre-feet Organizations To other irrigation organizations Only. Organizations	To farm and residential users and other			organizationsorganizations delivering		
HERE SELICATE OF IRRIGATION WATER PER ACRE, 1959 Water to other irrigation organizations acre-feet. To other irrigation organizations only. Organizations	irrigation organizationsorganizations					• • • • • • • • • • • • • • • • • • • •
organizations	usersacre-feet					
To other irrigation organizations Organizations Organizations reporting NO water from Only				organization:		
acre-feet and reporting organizations 3				Organizations reporting NO water from	0.8	1.8
No water conveyed	acre-feet			and reportingorganizations		6
	No water conveyedorganizations	3		acre-feet	1.2	2.1

^{*}Water was transferred to the basin and released to natural stream channels in excess of the quantity of surface water withdrawn by irrigation organizations. The net effect was to increase the available surface water supply in the basin or State.

OREGON

(277)

State Table 1.-NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS.

						Excluding	Columbia Riv	er (I-A)		
								Rogue River		
	Item (For definitions and explanations, see text)	The State	North Pacific Coast, total	Total	Pacific Coast direct	Total	Rogue River direct	Illinois River	Applegate River	Bear Creek
					(1)		(4a)	(4b)	(4c)	(4d)
1	Total acres irrigated in Census year1959	1,384,284 1,337,517	967,000 856,788	100,000 86,107	30,000 15,172	70,000 70,935	28,000 34,905	4,000 4,075	14,000 12,466	24,000 19,489
3	Irrigation organizationsorganizations 1959 1949	650 755	583 681	111 131	5 6	106 125	41 43	13 20	39 45	16 20
5	Service area, 1959: Farm area reported served by organizationsacrea 1959	903,222	655,152	62,754	905	61,849	27,284	2,656	12,465	19,444
6	Farm area reported irrigated by organizationsacres 1959	846,182	619,276	59,524	779	58,745	26,837	2,355	11,415	18,138
7	Water users served, totalwater users 1959	33,437	26,759	9,824	17	9,807	3,277	70	299	6,161
8	Farm irrigation water userswater users 1959	17,712	15,875	4,634	17	4,617	3,142	48	292	1,135
9	Residential water userswater users 1959	14,690	9,850	4,733		4,733	134	18	7	4,574
10	Other water userswater users 1959	1,035	1,034	457		457	1	4		452
11	IAND IRRIGATED BY SOURCE OF WATER, 1959 Ground water sources	200.042	364 000	5 000	1 000		7 000	1 000	1 000	
12	Surface water sourceaacrea	198,941	156,000 811,000	5,000 95,000	1,000 29,000	4,000 66,000	2,000	1,000 3,000	1,000	24,000
-	WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959	1,100,040	011,000	95,000	29,000	66,000	26,000	3,000	13,000	24,000
13 14	Total entering conveyance systems in basin	646 4,182,706	579 2,999,982	111 279,610	5 3,313	106 254,242	41 190,942	13 9,258	39 47,486	16 53,442
15 16	From another drainage basinorganizations acre-feet	28,647	42,948	36,356	:::	1 14,301	1 14,301	:::		2 46,886
17	From drainage basin number						II-A-7			(¹)
18 19	From natural sources within basinorganizations acre-feet	642 4,154,059	575 2,957,034	111 243,254	5 3,313	106 239,941	41 176,641	13 9,258	39 47,486	15 6,556
20 21	Surface waterorganizations acre-feet	631 3,891,300	564 2,712,694	111 236,054	5 3,313	106 232,741	41 169,441	13 9,258	39 47,486	15 6,556
22 23	Ground waterorganizations acre-feet	18 262,759	17 244,340	7,200		7,200	7,200	:::	:::	:::
24 25	From other organizations in the basinorganizations receiving acre-feet	19 278,847	12 217,033	9,987		9,987	9,987	:::		
26 27	Total leaving conveyance systemsorganizations acre-feet	646 4,182,706	579 2, 999, 982	111 279,610	3,313	106 254,242	41 190,942	13 9,258	39 47,486	16 53,442
28 29	Conveyance loss in basinorganizations acre-feet	499 730,281	441 582,043	79 51,877	5 739	74 51,138	30 31,684	12 1,795	25 6,638	11,021
30 31	Conveyed to another drainage basinorganizations acre-feet	503,598	116,565	22,055	:::		46,886	:		:::
32	To drainage basin numberD. B. No						(2)			
33 34	Delivered for use in the basinorganizations acre-feet	645 2,948,827	578 2,301,374	111 205,678	5 2,574	106 203,104	40 112,372	13 7,463	39 40,848	16 42,421
35 36	To farm irrigation water usersorganizations acre-feet	645 2,885,053	578 2,272,636	199,162	2,574	106 196,588	40 111,723	13 7,435	39 40,842	16 36,588
37 38	To residential water usersorganizations acre-feet	31,413	40 25,113	10 6,043		6,043	3 448	18	1 6	5,5771
39 40	For other useorganizations acre-feet	32,361	14 3,625	3 473		3 473	1 201	10	:::	262
41 42	Delivered to other unigation organizations	278,847	217,033	9,987		9,987	1 9,987		:::	:::
43	Average delivery of irrigation water per acre irrigated as reported by organizationsacre-feet	3.4	3.7	3.4	3.3	3.4	4.2	3.2	3.6	2.0
44	NEW CAPITAL INVESTMENT, 1950-1959 Expenditures for additional new works and equipment for irrigation and drainage. Jan. 1, 1950-Dec. 31, 1959organizationsdollars	277 9,588,868	253 4,489,697	52 1,567,812	4,100	50 1,563,712	22 1,323,509	9 31.750	16 146,978	61,475

122,055 acre-feet from D. B. No. II-A-1, 24,831 acre-feet from D. B. No. I-A-4d. 222,055 acre-feet to D. B. No. II-A-1, 24,831 acre-feet to D. B. No. I-A-4d. 313,047 acre-feet to D. B. No. I-B-5a, 79,968 acre-feet to D. B. No. I-B-5c.

BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950

	Columbia River Columbia River below Snake River (I-B)													
					Co			dver (I-B)						
Total	Total	Total	Below The	Above The Dalles	Total	Willamet Below Salem	Salem to Albany	Above Albany	Hood River	Total	Deschutes River direct below Madras	Squaw Creek and Deschutes River direct above Madras	Crooked River	
867,000	463,000	36,000	(la) 19,000	(1b) 17,000	151,000	(2a) 73,000	(2b) 43,000	(2c)	(3)	152,000	(5a) 33,000	(5b, d) 79,000	(5c) 40,000	┨.
770,681	354,841	23,805	11,026	12,779	73,585	31,006	23,041	35,000 19,538	19,696	147,367	20,255	75,808	51,304	2
472 550	175 216	19 28	11 13	8 15	11 15	4 6	4 5	3 4	10 14	25 38	9 12	8 15	8 13	
592,398	245,981	14,901	3,302	11,599	15,123	2,360	9,477	3,286	26,555	139,768	11,030	104,067	24,671	
559,752	237,480	13,136	2,742	10,394	11,884	1,263	8,186	2,435	25,512	139,283	10,730	104,027	24,526	6
16,935	11,844	4,707	4,132	575	415	52	253	110	1,982	2,459	208	1,693	558	
11,241	6,441 4,826	387 3,816	3,516	275 300	344 41	52	227	65 41	1,829	2,075	183	1,526	366 190	
577	577	504	504		30		26	4	15	27	16	9	2	10
151,000 716,000	92,000 3 71, 000	7,000 29,000	6,000 13,000	1,000	63,000 88,000	23,000 50,000	22,000 21,000	18,000 17,000	19,000	3,000 149,000	1,000 32,000	1,000 78,000	1,000 39,000	
468 2,742,427	173 1,316,521	19 104,320	11,362	92,958	11 46,933	1,468	31,245	14,220	10 85,842	725,041	9 52,656	8 639,156	8 126,244	13 14
28,647	1 4,364		:::	:::	:::	:::			:::	:::	1 13,047	:::	1 79,968	15 16
											I-B-5b		I+B-5b	17
2,713,780	170 1,312,157	19 104,320	11 11,362	92,958	10 46,933	1,468	31,245	14,220	10 85,842	725,041	39,609	639,156	6 46,276	
2,476,640	1,305,939	15 101,077	8,119	92,958	10 46,933	1,468	31,245	14,220	10 85,842	725,041	9 39,609	639,156	6 46,276	20 21
16 237,140	6,218	3,243	3,243	:::	:::	:::	:::	:::	:::	:::	:::	:::	*::	22
207,046	21,072	:::	:::	:::	3,7 8 0	:::	3,780		1,470	9,747			9,747	24 25
468 2,742,427	1,316,521	19 104,320	11 11,362	92,958	11 46,933	1,468	31,245	3 14,220	10 85,842	725,041	9 52,656	639,156	8 126,244	
362 530,166	112 329,590	15 3,836	8 278	7 3,558	15,390	3 128	3 13,415	1,847	3,642	22 207,727	8 20,359	6 154,239	33 ,1 29	28 29
116,565	1 15,364	15,364	:::	15,364 Washington		:::	:::	:::	:::	:::	:::	93,015	:::	30 31
467	173	19		I-B-1b 8								(3)		32
2,095,696	971,567	85,120	11,084	74,036	31,543	1,340	17,830	12,373	82,200	517,314	32,297	391,902	93 ,11 5	34
2,073,474	173 952,128	75,218	3,732	71,486	29,280	1,340	17,357	10,583	81,414	513,567	32 , 170	389,670	91,727	1
19,070	17 16,287	8,573	6,023	2,550	1,590	:::	:::	1,590	756	2 ,7 99	1 52	1,617	1,130	37 38
3,152	3,152	1,329	1,329	:::	2 673	:::	1 473	1 200	2 30	3 948	1 75	1 615	1 258	39 40
207,046	21,072	:::	:::	:::	3,780	:::	3,7 8 0	:::	1,470	9,747	:::	:::	9,747	41 42
3.7	4.0	5.7	1.4	6.9	2.5	1.1	2.1	4.3	3.2	3.7	3.0	3.7	3.7	43
201 2,921,885	2,076,992	13 168,521	134,321	4 34,200	7 73,085	3 4,235	23,000	45,850	151,117	18 1,533,448	637,653	6 872,637	3 23,158	44

State Table 1.-NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS,

_						Columbia Riv	er—Continue	1		•	
		Columbia	River belo	Snake Rive	r (1-B)—Com	tinued	Sı	ake River b	elow Weiser,	Idaho (I-E)	
	Item (For definitions and explanations, see text)	J	ohn Day Rive						Gra	nde Ronde Ri	ver
		Total	Below Dayville	Above Deyville	Umatilla River	Walla Walla River	Total	Snake River direct	Total	Grande Ronde River direct	Wallowa River
			(6a)	(6b)	(7)	(8)		(1)		(2a)	(2b)
2	Total acres irrigated in Census year	49,000 43,873	19,000 17,116	30,000 26,757	33,000 29,738	23,000 16,777	190,000 210,102	3,000 3,629	61,000 60,506	21,000 16,016	40,000 44,490
3 4	Irrigation organizationsorganizations 1959	49 54	5 11	44 43	18 18	46 51	269 304	8	91 106	33 43	58 63
5	Service area, 1959: Farm area reported served by organizationsacres 1959	11,249	359	10,890	26,312	12,073	186,850	726	62,967	19,912	43,055
6	Farm area reported irrigated by organizationsacres 1959	11,225	34.8	10,877	24,900	11,540	167,170	651	54,658	13,803	40,855
7	Water users served, totalwater users 1959	335	16	319	1,222	724	2,253	18	921	332	589
8	Farm irrigation water userswater users 1959	273	16	257	880	653	2,054	18	865	320	545
9	Residential water userswater users 1959	62		62	342	70	199		56	12	44
10	Other water userswater users 1959					1					
	LAND IRRICATED BY SOURCE OF WATER, 1959										
11	Ground water sourcesacres	1,000	1,000		5,000	13,000	5,000		2,000	1,000	1,000
12	Surface water sourcesacres	48,000	18,000	30,000	28,000	10,000	185,000	3,000	59,000	20,000	39,000
13 14	WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959 Total entering conveyance systems in besin	49 59,050	5 1,832	44 57,218	16 224,429	46 70,906	267 617,637	8 25,170	91 233,209	33 46,348	58 186,861
15 16	From another drainage basinorganizations acre-feet					1 4,364	1,400	1 1,400	1 18,738		1 18,738
17	From drainage basin number					Washington I-A-lb		I-F-1			I-E-1
18 19	From natural sources within basinorganizations acre-feet	49 59,050	5 1,832	44 57,218	15 224,429	45 66,542	266 616,237	8 23,770	89 214,471	33 46,348	56 168,123
20 21	Surface waterorganizations	49 58,852	5 1,832	44 57,020	15 224,429	38 63,765	266 616,136	8 23,770	89 214,396	33 46,348	56 168,048
22 23	Ground waterorganizations acre-feet	1 198		1 198		7 2,777	101		1 75		1 75
24 25	From other organizations in the basin organizations receiving		:::	:::	3 5,799	1 276	2 18,230	:::	2 18,230		2 18,230
26 27	Total leaving conveyance systemsorganizations acre-feet	49 59,050	5 1,832	44 57,218	16 224,429	46 7 0,906	267 617,637	8 25,170	91 233,209	33 46,348	58 186,861
28 29	Conveyance loss in basinorganizations acre-feet	46 5,955	5 139	41 5,816	6 89,139	14 3,901	224 71,729	8 2,630	81 28,543	32 7,132	49 21,411
30 31	Conveyed to another drainage basinorganizations acre-feet		:::			:::		18,738			
32	To drainage basin numberD. B. No						}	I-E-2b			
33 34	Delivered for use in the basinorganizations acre-feet	49 53,095	1,693	44 51,402	16 135,290	46 67,005	266 545,908	7 3,802	90 204,666	33 39,216	57 165,450
35 36	To farm irrigation water usersorganizations acre-feet	49 52,907	1,693	44 51,214	16 133,190	46 66,552	266 544,274	7 3,802	90 203,744	33 39,191	57 164,553
37 38	To residential water usersorganizations acre-feet	1 188	:::	1 188	2,100	2 281	9 1,634		6 922	2 25	4 897
39 40	For other useorganizations		:::	:::		1 172		:::	:::	:::	
41 42	Pelivered to other irrigation organisations delivering. acre-feet		:::	:::	1 5,799	1 276	2 18,230	:::	2 18,230	:::	2 18,230
43	Average delivery of irrigation water per acre irrigated as reported by organizationsacre-feet	4.7	4.9	4.7	5.3	5.8	3.3	5.8	3.7	2.8	4.0
44	NEW CAPITAL INVESTMENT, 1950-1959 Expenditures for additional new works and equipment for trigistion and drainage, Jan. 1, 1950-Dec. 31, 1959	8 18,231	:::	8 18,231	7 132,590	:::	137 390,197	3,700	42 90,597	14 38,443	28 52,154

11,957 acre-feet from D. B. No. Idaho I-F-6, 12,326 acre-feet from D. B. No. Idaho I-F-1, 281,845 acre-feet from D. B. No. I-F-5a.

222,055 acre-feet from D. B. No. I-A-4a, 30,402 acre-feet from D. B. No. II-A-7.

31,400 acre-feet to D. B. No. I-A-4a, 101,201 acre-feet to D. B. No. Idaho I-F-1.

BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950-Continued

	Columbia River—Continued														
Snake	River below	Weiser, Idah	io (I-E)—Con	tinued		Snake Ri	ver Weiser,	Idaho to Kir	ng Hill, Idah	o (I-F)		South		Klamath	
	P	owder River						Malheur	River			Pacific Coast, total		River direct	
Pine Creek	Total	Below Thief Valley Reservoir	Above Thief Valley Reservoir	Burnt River	Total	Snake River direct	Total	Malheur River direct below Warm Springs (4a)	Malheur River direct above Warm Springs (4h)	Willow Creek	Owyhee River	TOTAL	Totsl	and Lower Klamath Lake	
12,000	93,000	20,000	73,000	21,000	214,000	104,000	89,000	59,000	5,000	25,000	21,000	261,000	231,000	47,000	1.
14,687	103,832	24,190	79,642	27,448	205,738	93,567	84,959	50,734	11,453	22,772	27,212	244,980	219,595	43,851	1
50	114	21 21	93	27	30	10	14	10	3	3	6	43	38 33	10 9	2
17,785	91,189	23,079	68,110	14,183	159,567	80,861	69,169	44,498	2,411	22,260	9,537	198,111	181,783	39,607	
16,972	80,987	22,329	58,658	13,902	155,102	77,706	68,359	43,688	2,411	22,260	9,037	185,823	170,823	37,395	
429	787	300	487	98	2,838	1,671	1,110	716	19	375	57	6,543	6,385	1,130	
305	768	281	487	98	2,746	1,588	1,105	716	19	370	53	1,707 4,835	1,549 4,835	902	8
124							•••					4,835	4,835	902	
	2,000		2,000	1,000	54,000	40,000	13,000	10,000		3,000	1,000	28,000	26,000	6,000	11
12,000	91,000	20,000	71,000	20,000	160,000	64,000	76,000	49,000	5,000	22,000	20,000	233,000	205,000	41,000	
42	104	20	84	23	28	10	15	11	3	3	5	43	37	9	
60,654	255,577	121,398	134,179	61,765	809,669	561,220	269,752	247,701	15,243	77,304	308,010	1,121,549	1,072,652	179,505	1/
					24,283	306,128 (1)	47,468	47,468	•••	70,496		22,055	22,055	52,457 (2)	16
42	104	20	84	23	28	10	14	I-F-1 10	3	I-F-1 3		43	37	8	18
60,654	255,577	121,398	134,179	61,765	785,386	255,092	222,284	200,233	15,243	6,808	308,010	1,099,494	1,050,597	127,048	1
60,654	255,551	121,398	134,153	61,765	554,565	24,271	222,284	200,233	15,243	6,808	308,010	1,081,075	1,032,178	127,048	21
:::	26	:::	26		230,821	230,821	***	:::	:::		:::	18,419	18,419	:::	22
:::	:::	:::	:::	:::	167,744	167,744			:::	:::	:::	7 61,814	61,814	5,691	25
60,654	104 255,577	121,398	134,179	61,765	28 809,669	10 561,220	15 269,752	247,701	15,243	77,304	308,010	1,121,549	37 1,072,652	179,505	
31 4,395	86 30,181	16 14,873	70 15,308	19 5,980	26 128,847	63,3 1 2	14 55,526	10 38,614	2,784	3 14, 1 28	10,009	34 139,184	28 121,214	28,482	
:::	:::	:::	:::	:::	102,601	3 150,069		70,496	:::	:::	281,845	423,389	423,3 8 9	22,055	30
						(3)		I-F-4c						I-A-4d	
56,259	104 225,396	20 106,525	118,871	55 , 785	28 578,221	347,839	15 214,226	138,591	12,459	63,176	16,156	558,976	36 528,049	128,968	34
55,647	104 225,296	20 106,425	84 118,871	55,785	28 577,072	10 347,080	15 213,886	138,591	12,459	62,836	4 16,106	523,990	36 493,063	97,982	36
612	100	100	:::	:::	1,149	759	1 340		:::	1 340	1 50	6,250	6,250	2,250	
		:::	:::			:::	:::	:::		:::	:::	28,736	28,736	28,736	39
:::	:::	:::	:::	:::	167,744	1 167,744	:::	:::	:::		:::	61,814	61,814	5,691	
3.3	3.0	4.8	2.0	4.0	3,7	4.5	3.1	3.2	5.2	2.8	1.8	2.8	2.9	2.8	4:
25 47,085	49 201,315	12 103,934	37 97,381	17 47,500	9 454,696	3 341,207	82,739	3 64,526		3 18,213	30,750	5,080,671	21 5,080,671	6 695,462	42

State Table 1.-NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950-Continued

_		Klamath Riv Contir	ver (II-A) —		-	Great Basin	(Northwest Gr	reat Basin) (III-A)	
	Item (For definitions and explanations, see text)	Lost River	Upper Klamath Lake and Williamson Reservoir	Sacramento River (II-D) Coose Lake	Total	Lake Abert area, Silver and Summer Lakes area, Comhead and Warner Lakes area	Central Desert area	Malheur Lake area	Trout and Whitehorse Creeks	Quinn River
		(6)	(7, 8)			(1, 2, 3)	(5)	(6)	(7)	(8)
2	Total acres irrigated in Census year1959 1949	95,000 77,241	89,000 98,503	30,000 25,385	156,000 235,749	70,000 99,100	1,000 2,543	67,000 110,236	13,000 16,890	5,000 6,980
3	Irrigation organizationsorganizations 1959 1949	11 7	21 20	6 10	26 32	9 10	:::	17 22	:::	:::
5	Service area, 1959: Farm area reported served by organizations	91,803	50,373	16,328	49,959	29,528		20,431		•••
6	Farm area reported irrigated by organizationsacres 1959	89,892	43,536	15,000	41,083	25,046		16,037		
7	Water users served, totalwater users 1959	5,117	138	158	135	69		66		•••
8	Farm irrigation water userswater users 1959	1,184	138	158	130	64		66		
9	Residential water userswater users 1959	3,933	• • • • • • • • • • • • • • • • • • • •		5	5		•		
10	Other water userswater users 1959		•••		•••					•••
11	LAND IRRIGATED BY SOURCE OF WATER, 1959 Ground water sources	14,000	6,000	2,000	15,000	9,000		4,000	2,000	
12	Surface water sourcesacres	81,000	83,000	28,000	141,000	61,000	1,000	63,000	11,000	5,000
13 14 15 16	WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1999 Total entering conveyance systems in basin organizations acre-feet From enother drainage basin organizations acre-feet	750,422 1	21 427,501	6 48,897 	26 97,531	73,470 		17 24,061	···	
17		254,374	•••	***	•••					•••
18	From drainage basin numberD. B. No From natural sources within basinorganizations	II-A-7	21		26			17		•••
19	Surface waterorganizations	496,048	427,501	48,897	97,531	73,470		24,061	:::	:::
21	acre-feet Ground waterorganizations	477,629	427,501	48,897	97,531	73,470		24,061		:::
23	acre-feet From other organizations in the	18,419		:::		:::	:::	:::	:::	•••
25	basin	56,123		:::			:::		:::	
26 27	Total leaving conveyance systemsorganizations scre-feet	11 750,422	21 427,501	6 48,897	26 97,531	9 73,470		17 24,061		:::
28 29	Conveyance loss in basinorganizations acre-feet	87,075	14 5,657	6 17,970	9,054	5,2 1 2		17 3,842	:::	:::
30 31	Conveyed to another drainage basinorganizations acre-feet	1 382,419 California	303,69 1	:::				:::		
32	To drainage basin number	II-A-6	(1)					•••		
33 34	Delivered for use in the basinorganizations acre-feet	280,928	118,153	30,927	88,477	68,258	:::	17 20,219	:::	:::
35 36	To farm irrigation water usersorganizations acre-feet	11 276,928	19 118,153	30,927	88,427	68,208		17 20,219	:::	
37 38	To residential water usersorganizations acre-feet	4,000	:::	:::	1 50	1 50	:::,	:::	:::	
39 40	For other useorganizations acre-feet		:::	:::	•••				:::	
4 1 42	Delivered to other irrigation organizationsorganizations delivering acre-feet	1 56,123	:::							
43	Average delivery of irrigation water per acre irrigated as reported by organizationsacre-feet	3.1	2.7	2.1	2.2	2.7		1.3		
44	NEW CAPITAL INVESTMENT, 1950-1959 Expanditures for additional new works and equipment for irrigation and drainage, Jan. 1, 1950-bec. 31, 1959	7 3,818,512	10 566,697	•••	18,500	18,000	 	1 500		:::

^{130,402} acre-feet to D. B. No. II-A-5, 14,301 acre-feet to D. B. No. I-A-4a, 4,614 acre-feet to D. B. No. California II-A-6, 254,374 acre-feet to D. B. No. II-A-6.

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State Table 2.-NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950

Item (For definitions and explanations, see text)	Oregon, total	North Pacific Coast excluding Columbia River	Columbia River below Snake River	Snake River below Weiser, Idaho to King Hill, Idaho	Klamath River
		(I-A)	(8-1)	(I-E and I-F)	(II-A)
Irrigation organizations, total numberorganizations 1959	650 755	111	175 216	296 334	
Area irrigated as reported by organizationsacres 1959	846,182 739,052	59,524 53,630	237,480 186,111	322,272 305, 07 0	170 123
Farm water users served directlywater users 1959	17,712	4,634	6,441	4,800	1
Total water conveyedacre-feet 1959	4,461,553	289,597	1,337,593	1,611,880	1,134
TYPE OF ORGANIZATION					
Mutual: Unincorporatedorganizations 1959 1949 Farm area irrigated directlyacres 1959	473 580 193,100	86 106 15,092	113 150 18,350	232 268 107,105	10
Farm water users served directlywater users 1959 Total water conveyedacre-feet 1959	2,513 683,382	420 64,873	609 94,855	1,272 394,148	36
Incorporatedorganizations 1959 1949 Farm area irrigated directlyacres 1959	115 117 146,039	17 16 7,287	37 42 37,402	54 54 80,417	8
Farm water users served directlywater users 1959 Total water conveyedacre-feet 1959	3,084 613,757	256 26,475	1,467 177,450	1,111 332,635	2
Districtorganizations 1959 1949 Farm area irrigated directlyacres 1959	55 47 (D)	7 7 (D)	21 20 (D)	10 10 134,750	13
Farm water users served directlywater users 1959 Total water conveyedacre-feet 1959	(D)	(D) (D)	(D)	2,417 885,097	1,01
U.S. Bureau of Reclamation; projects and stor age systems operated by bureauorganizations 1959	3 5		2 2		
Farm area irrigated directlyacres 1959 Farm water users served directlywater users 1959 Total water conveyedacre-feet 1959	12,645 30 44,701				1.
U. S. Bureau of Reclamation; operated by water users	32	4	ш 	7	•
Farm area irrigated directlyacres 1959 Farm water users served directlywater users 1959	391,972 9,462	NA 29,104 3,477	NA 146,171 2,761	NA 101,699 1,928	11
Total water conveyedacre-feet 1959 U. S. Bureau of Indian Affairsorganizations 1959	2,754,120	158,508	913,568	772.993	96
1949 Farm area irrigated directlyacres 1959 Farm water users served directlywater users 1959	3 1,790	:::	330 370	:::	:
Total water conveyedacre-feet 1959	11,275	•••	3,975		
Commercialorganizations 1959 1949 Farm area irrigated directlyacres 1959 Farm water users served	•••				
directlywater users 1959 Total water conveyedacre-feet 1959	•••	:::	:	:::	
Stateorganizations 1959 1949 Farm area irrigated directlyacres 1959 Farm water users served	•••		····		
directly	: ::	:::	 	:::	
Cityorganizations 1959 1949 Farm area irrigated directlyacres 1959	2 3 (D)	1 (D)	1 1 (D)		
Farm water users served directlywater users 1959 Total water conveyedacre-feet 1959	(D) (D)	(D)	(D) (D)		

 ${\tt D}$ Data not shown to avoid disclosure of information for individual organizations. NA Not available.

State Table 2.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Continued

_						
	Item (For definitions and explanations, see text)	Oregon, total	North Pacific Coast excluding Columbia River	Columbia River below Smuke River	Snake River below Weiser, idaho and Snake River, Weiser, Idaho to King Hill, Idaho	Klamath River
			(I-A)	(I-B)	(I-E and I-F)	(II-A)
	TYPE OF SERVICE, 1959					
2	All water directly from surface and ground water sources	627 4,139,701	110 274,097	166 1,310,673	290 1,391,207	1,075,707
3 4	Water deliveredacre-feet To farm and residential users onlyorganizations	2,999,487 614	202,192	965,130 161	1,198,592 285	514,169 28
5 6	acre-feet To farm and residential users and other irrigation organizationsorganizations	1,915,020	175,685	674,453	719,716	225,762
7	Water to farm and residential usersacre-feet	805,620	16,520	269,605	292,902	226,593
8	Water to other irrigation organizationsacre-feet	261,522	9,987	21,072	168,649	61,814
10	To other irrigation organizations only organizations scre-feet	1 17,325			17,325	
11	Part of water from other				1	
12 13	organizationsorganizations Total water conveyedacre-feet From surface and ground water	15 286,864	1 15,500	9,257	3 203,348	7 58,759
14	sourcesacre-feet	43,005	5,513	5,848	34,699	1-3,055
15 16	organizationsacre-feet Water deliveredacre-feet To farm and residential	243,859 162,792	9,987 13,000	3,409 8,648	168,649 94,186	61,814 46,958
17	users onlyorganizations acre-feet	15 162,792	1 13,000	8,648	3 94,186	7 46,958
18	To farm and residential users and other irrigation organizationsorganizations					•••
20	usersacre-feet Water to other irrigation	•••	•••	•••	•••	
21	organizationsacre-feet To other irrigation organizations onlyorganizations					
22	acre-feet	:::				•••
23 24 25 26	All of water from other organizations. organizations. organizations. Total water conveyed. acre-feet. Water delivered acre-feet. To farm and residential	4,988 33,034	•••	3 17,663 15,709	1 17,325 17,325	
27	users onlyorganizations acre-feet	4 33,034	:::	3 15,709	1 17,325	
28 29	To farm and residential users and other irrigation organizations organizations Water to farm residential	•••				•••
30	usersacre-feet Water to other irrigation					
31	organizationsacre-feet To other irrigation organizations onlyorganizations					
32	acre-feet	•••				•••
33	No water conveyedorganizations WATER FROM OTHER SOURCES	4	•••	2	2	•••
34	Organizations reporting 10 water from other sources used on land served					
35 36 37	by the organization	577 809,820 760,014 2,568,770 3.3	107 56,579 53,424 174,269	150 146,500 140,485 595,128 4,2	255 293,198 273,609 1,042,269	37 268,575 256,342 678,440 2.6
38 39	acre-feet per acre Organizations reporting water from other sources used on land served by the		3.2	23	38	1
40 41 42 43	organization	68 331,481 323,564 1,252,745 3,9	4 6,175 6,100 24,893 4.1	102,281 99,495 367,000	217,650 213,094 851,522 4.0	2,000 2,000 2,530 1.2
					v immigation organization	ns. The net effect was

Twiter was transferred to the basin and released to natural stream channels in excess of the quantity of surface water withdrawn by irrigation organizations. The net effect was to increase the available surface water supply in the basin or State.

State Table 2.-NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Continued

(For definitions and explanations, see text)	Oregon, total	North Pacific Coast excluding Columbia River	Columbia River below Snake River	Snake River below Weiner, Idaho to King Hill, Idaho	Klamath River
		(I-A)	(I=B)	(I-E and I-F)	(II-A)
WATER DELIVERED FER AGRE Organizations reporting No mater from other sources used on same land: 0.1 to 0.9 scre-feet per acreorganizations. 1.0 to 1.9 scre-feet per acreorganizations. 2.0 to 2.9 scre-feet per acreorganizations. 3.0 to 3.9 scre-feet per acreorganizations. 4.0 to 4.9 scre-feet per acreorganizations. 5.0 to 5.9 scre-feet per acreorganizations. 5.0 to 5.9 scre-feet per acreorganizations. 6.0 to 6.9 scre-feet per acreorganizations. 7.0 to 7.9 scre-feet per acreorganizations. 8.0 to 9.9 scre-feet per acreorganizations. 8.0 to 9.9 scre-feet per acreorganizations. 10.0 or more scre-feet per acreorganizations. acres irrigated. 3.0 to 9.9 scre-feet per acreorganizations. acres irrigated.	28 20,602 80,036 127 221,968 142 162,184 64 167,222 63,709 63,709 63,709 15,774 28 11,979 11,979	8 789 2,391 24 27,362 29,506 133 2,835 1,245 8,222 708 2 324 	2 460 18 18,090 9,935 27 19,705 61,833 9,301 10 8,707 7,7 1,7% 22,4 9,404 8,8	13 12,856 9 30,658 28,656 5,556 4,836 4,836 101,073 10,073 7,73 3,100,73 3,100,73 2,194 2,194	18.66 14.9.00 14.9.00 1.85,93 1,48 1,46
SIZE OF ORGANIZATION Size of organization (number of farm Irrigation water users served directly): Irrigation water users served directly): None organizations. 1 to 3. organizations. 4 to 9. organizations water users 10 to 29. organizations water users 30 to 99. organizations water users 10 to 299. organizations water users 10 to 299. organizations water users 300 to 999. organizations water users 1,000 or more organizations water users 1,000 or more water users water users	5 2200 541 250 1,386 104 4,741 112 2,232 13 7,304 3 7,238	 44 111. 40 230 19 335 2 87 3 564 2 2 2 2 775 1	2 71 176 45 257 25 449 20 1,217 7 7 1,295 3,078	3 90 216 135 755 827 12 11 1 250 3 1,508 2 5,038	
Size of organization (acre-feet of water delivered directly to farms): 00 common control of directly to farms): 1 to 299 acre-feet. organizations 300 to 999 acre-feet. organizations 1,000 to 2,999 acre-feet. reganizations 3,000 to 9,999 acre-feet. reganizations 10,000 to 29,999 acre-feet. organizations 00,000 to 29,999 acre-feet. organizations 00,000 to 99,999 acre-feet. organizations 00,000 to 99,999 acre-feet. organizations 00,000 to 99,999 acre-feet. organizations 00,000 to 99,999 acre-feet. organizations 00,000 to 99,999 acre-feet. organizations 00,000 to 99,999 acre-feet. organizations 00,000 to 99,999 acre-feet. organizations 00,000 to 99,999 acre-feet. organizations 00,000 to 99,999 acre-feet. organizations	5 152 22,194 198 120,113 156 222,005 5 424,468 3,588,769 1,712,390	 4,841 3,7 21,327 29,777 27,676 68,890 1 46,681	2 47 7,679 5,66 33,770 66,818 101,482 179,614 5 218,955 22,8,955 23,937	3 59,234 99 55,939 1149,233 144,23 277,247 12 177,052 4 232,503 1,062,783	2,0; 18,2; 59,0; 132,0; 173,6; 295,6
Size of organization (acre-feet of water conveyed); None	4 129 18,613 114,946 281,400 2500,118 367,723 17,927,736 3,067,787	38 4,103 19,776 26 44,411 7 32,799 2 41,055 3 125,988	2 41 6,731 33,766 33,766 36,730 23 118,810 173,156 425,962 518,509	27, 7, 297, 88 52, 773 80 139, 457 56 254, 412 16 252, 323 191, 434 4 1,842,108	 26 2,36 1,21 28,22 58,63 118,16 166,69 707,17

IRRIGATION OF AGRICULTURAL LANDS

State Table 3.-LAND IRRIGATED BY SOURCE OF WATER, BY DRAINAGE BASINS: CENSUS OF 1959

	Item (For definitions and explanations, see text)	Oregon, total	North Pacific Coast, excluding Columbia River	Columbia River below Snake River, (Oregon, Washington)	Snake River below Weiser, Idaho, and Snake River, Weiser, Idaho, to King Hill, Idaho	Klamath River
1	Total acres irrigstedfarms reporting	17,724	3,416	9,648	3,300	908
2	acres Acres irrigated by sprinklersfarms reporting	1,384,284	100,062	463,286	403,333	231,488
4	acres irrigated by sprinklerstarms reporting	8,954	1,628	6,782	265	227
- 5	Sprinklers onlyfarms reporting	283,506 7,747	37,217 1,350	210,852 6,178	14,379	15,860 58
6	scres	234,031	30,942	187,859	7,863	4,612
	LAND IRRIGATED, BY SOURCE OF WATER TO INDIVIDUAL FARMS, 1959	, 0.31	50, 342	107,009	7,000	*,012
7	Ground water sources on farmfarms reporting	4,097	351	3,248	287	109
8	scres	151,486	4,559	92,214	13,692	23,995
9	Ground water sources on farm only.farms reporting	3,208	250	2,698	144	50
10	acres	99,340	3,406	66,253	6,305	12,905
11	Surface sources on farmfarms reporting	6,551	1,639	3,629	864	132
12	scres	561,303	52,394	180,437	123,725	67,920
13	Surface sources on farm onlyfarms reporting	5.596	1,496	3,135	637	90
14	scres	465,244	48,583	149,172	99,843	56,389
15	Irrigation organization sourcesfarms reporting	8,445	1,617	3,477	2,473	758
16	ccres	671,495	43,109	190,635	265,916	139,573
17	Irrigation organization sources					
	onlyfarms reporting	7,591	1,483	3,126	2,204	685
18	scres	565,506	37,821	168,176	230,918	115,958
19	Both farm ground water sources and surface sourcesfarms reporting	472	52	338	44	10
20	acres	64,334	1,672	35,025	10,141	3,854
21	Both irrigation organization and farm ground water or farm surface sourcesfarms reporting	857	135	351	271	73
22	scres	189,860	8,580	44,660	56,126	42,382

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950

				Oregon, total			
Item (For definitions and explanations, see text)		Mut	ual		U. S. Bureau	of Reclamation	Commercial.
	All types	Unincorporated	Incorporated	District	Projects and storage systems operated by bureau	Operated by water users	Indian, State, city, and other
Irrigation organizationsorganizations 1959,	650 755	473 580	115 117	55 47	3 5	32 11	
Service area, 1959: Area served, as reported by organizations	903,222	218,746	156,348	(D)	13,310	400,656	(D)
Area irrigated, as reported by organizationsacres	846,182	193,100	146,039	(D)	12,645	391,972	(D
Water users served, 1959, totalwater users	33,437 17,712	2,621	4,217	(D)	32	17,374	(D
Farm irrigation water users. water users. Residential water users. water users. Other water users. water users.	17,712 14,690 1,035	2,513 103 5	3,084 1,068 65	(D) (D)	30 2	9,462 7,900 12	(D)
TYPE OF SERVICE, 1959 All water directly from surface and ground							
water sourcesorganizations. Total water conveyedacre-feet Water deliveredacre-feet To farm and residential users	627 4,139,701 2,999,487	472 682,692 608,706	107 500,463 417,833	(D) (D)	44,701 44,701	21 2,536,072 1,623,853	(D)
onlyorganizations acre-feet To farm and residential users and other	614 1,915,020	471 591,381	105 412,642	33 (D)	44,701	14 622,260	(D)
To farm and residential users and other irrigation organizationsorganizations Water to farm and residential	12		2	10		7	
usersacre-feet Water to other irrigation	805,620		4,010	(D)	•••	746,502	
organizationsacre-feet To other irrigation organizations	261,522		1,181	(D)		255,091	
onlyorganizations	17,325	17,325			:::	:::	
Part of water from other organizations organizations. Total water conveyed acre-feet. From surface and ground water	15 286,864	1 690	6 91,833	(D)	:::	8 208,30 1	
sources	43,005 243,859 162,792	414 276 518	38,477 53,356 82,000	(D) (D)		1,324 206,977 90,662	
onlyorganizations	15 162,792	1 518	6 82,000	8 (D)		90,662	
To farm and residential users and other irrigation organizations						*	
water to other irrigation							
organizations							
acre-feet	•••		2	•••	••••	 1	
All of water from other organizationsorganizations Total water conveyed	34,988 33,034	:::	21,461 21,461	(D) (D)	:::	9,747 8,773	:::
onlyorganizations	33,034		21,461	(D)		1 8,773	
To farm and residential users and other irrigation organizationsorganizations Water to farm and residential							
usersacre-feet							
organizationsacre-feet To other irrigation organizations	•••						
onlyorganizations acre-feet		:::					:::
No water conveyedorganizations WATER FROM OTHER SOURCES	**		•••		-	-	
Organizations reporting no water from other sources used on the land served by the							
organizationorganizations acrea cerved acrea irrigated water delivered to farms (acre-feet)	577 809,820 760,014 2,568,770	434 195,615 174,753 542,713	97 129,079 119,231 410,904	(D) (D) (D) (D)	1 20,960 19,912 70,000	24 391,756 382,351 1,370,053	(a) (a) (a)
acre-feet per acre Organizations reporting water from other sources used on land served by the organizationorganizations	3.3	3.1	3.4	3.4	3.5	3.6	4.5
organization	331,481 323,564 1,252,745 3.9	23,131 18,347 48,855 2.6	27,269 26,808 103,858 3.8	(D) (D) (D) 3.9		236,117 234,750 964,387 4.1	(D) (D) (D) 1.0
NEW CAPITAL INVESTMENT, 1950-1959 Expenditures for additional new works and equipment for irrigation and drainage, January 1, 1950-becaber 31, 1959organizations By U. S. B. R	277 3,912,131 5,676,737	177 364,516	59 498,300 590,261	38 (D)	1,884,983 	24 2,027,248 4,340,545	2 (D)

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

				Oregon, total			
Item (For definitions and explanations, see text)		Mut	ual		U. S. Bureau	of Reclamation	
(ver decimal community see (ext)	All types	Unincorporated	Incorporated	District	Projects and storage systems operated by bureau	Operated by water users	Commercial, Indian, State, city, and other
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959							
Total entering conveyance systemsorganizations acre-feet	646 4,182,706	473 683,106	115 538,940	53 (D)	,701	30 2,537,396	(D
From another drainage basinorganizations acre-feet From drainage basinD. E. No	28,647			(D)	:::	11,957	
From sources within basinorganizations	642	473	113	51	,	29	,
acre-feet Surface waterorganizations	4,154,059 631	683,106 465	538,940 110	(D) 51	44,701	2,525,439	(r
acre-feet Ground waterorganizations	3,891,300 18	680,091	537,653	(D)	44,701	2,276,199	(12
acre-feet	262,759	3,015	1,287	(D)		249,240	(D
From other organizations in the basin organizations receiving acre-feet	19 278,847	1 276	8 74,817	10 (D)	:::	216,7 2 4	::
Total leaving conveyance systemsorganizations acre-feet	646 4,182,706	473 666,057	115 612,576	53 (D)	1 44,701	30 2,499,029	(D
Conveyance loss in basinorganizations acre-feet	499 730,281	366 73,976	85 91,427	46 (D)	:::	27 512,989	(D
Conveyed to another drainage basinorganizations	503,598			4-4			
To drainage basin number	503,598	:::		(D)	:::1	488,234	::
Delivered for use in the basinorganizations acre-feet	645 2,948,827	472 592,081	115 521,149	53 (D)	1	30 1,497,806	,_
To farm irrigation water usersorganizations	645	472	115	53	44,701	30	(D
acre-feet To domestic water usersorganizations	2,885,053 44	591,568 12	514,762 15	(D) 13	44,451	1,449,277 11	(D
For other useorganizations acre-feet	31,413 14 32,361	331 2 182	5,351 6 1,036	(D) 3 (D)	250	18,920 2 29,609	(D
Delivered to other impation organizations delivering. acre-feet	11 278,847	17,325	2 1,181	(D) 8		5 255,091	
SIZE OF ORGANIZATION, 1959							
Size of organization (number of farm irrigation water users); organizations. None	6 220 250 103 44 11	2 210 214 43 4	7 34 52 17 4	(D) (D) (D) (D) (D) (D)	2 1	2 1 1 11 6	(D) (D) (D) (D) (D) (D) (D)
1,000 or more water usersorganizations	3			(D)	:::	ź	(D
Size of organization (acre-feet of water delivered directly to farms): organizations None. organizations 1 to 299 acre-feet organizations 300 to 999 acre-feet organizations 3,000 to 2,999 acre-feet organizations 3,000 to 9,999 acre-feet organizations 10,000 to 2,999 acre-feet organizations 30,000 to 9,999 acre-feet organizations 30,000 to 99,999 acre-feet organizations 100,000 or more acre-feet organizations organizations	5 152 198: 156: 85 34 13	1 142 166 119 40 4	 9 29 32 32 12	(D) (D) (D) (D) (D) (D) (D)	2 	2 5 9 9	(b) (b) (b) (b) (c) (b)
Size of organization (mere-feet of mater conveyed): mater conveyed): log 99 mere-feet organizations 500 to 999 mere-feet organizations 1,000 to 2,999 mere-feet organizations 3,000 to 9,999 mere-feet organizations 10,000 to 9,999 mere-feet organizations 31,000 to 9,999 mere-feet organizations 31,000 to 9,999 mere-feet organizations 10,000 to 99,999 mere-feet organizations 01,000 to mare mere-feet organizations 01,000 to 99,999 mere-feet organizations	4 129 193 160 102 36 17 9	123 165 128 50 7	 5 27 28 38 14 3	(D) (D) (D) (D) (D) (D) (D)	2 	2 1 1 2 8 9	(D (D (D (D (D (D

D Data not shown to avoid disclosure of information for individual organizations.

		1	North Pacific Com	et, excluding Col	umbia River (I-A)		
Item (For definitions and explanations, see text)		Mut	ual		U. S. Bureau	of Reclamation	Commercial.
(rot details and explanations, see text)	All types	Unincorporated	Incorporated	District	Projects and storage systems operated by bureau	Operated by water users	Indian, State, city, and other
Irrigation organizationsorganizations 1959 1949 Service area, 1959:	111 131	86 106	17 16	7 7		4 NA	1 2
Area served, as reported by organizations	62,754	16,441	8,148	(D)		30,099	(D)
by organizations. acres Mater users served, 1959, total. mater users. Farm irrigation mater users mater users. Residential mater users mater users Other water users mater users Water users.	59,524 9,824 4,634 4,733 457	15,092 455 420 31 4	7,287 389 256 132 1	(D) (D) (D)		29,104 5,467 3,437 2,030	(D) (D) (D) (D)
TYPE OF SERVICE, 1959							
All water directly from surface and ground water sources. organizations. Total water conveyed	110 274,097 202,192	86 64,873 54,080 86	17 26,475 23,484	(D) (D)		3 120,953 93,297 2	(D) (D)
To farm and residential users and other irrigation organizationsorganizations	175,685	54,080	23,484	(D) 1		66,790	(D)
Water to farm and residential usersacre-feet Water to other irrigation	16,520 9,987			(D)		16,520 9,987	
organizationsacre-feet To other irrigation organizationsorganizations onlyorganizationsacre-feet	9,987	:::	***	(D)		9,987	
Part of water from other organizations	15,500			1 (D)	:::	1 37,555	
sources	5,513 9,987 13,000			(D) (D)		5,513 9,987 13,000	
onlyorganizations acre-feet To farm and residential users and other	13,000			(D)	:::	13,000	:::
irrigation organizationsorganizations Water to farm and residential usersacre-feet							
Water to other irrigation organizationsacre-feet To other irrigation organizations onlyorganizations							
acre-feet All of water from other organizationsorganizations							
Total water conveyed		:::	:::	:::		:::	:::
To farm and residential users and other irrigation organizationsorganizations	•••		:::	:::			
Water to farm and residential usersacre-feet Water to other irrigation							
organizationsacre-feet To other irrigation organizations onlyorganizations	***						
No water conveyedorganizations	•••						
Organizations reporting no water from other Sources used on the land served by the organizations	107 56,579 53,424 174,269	83 16,154 14,880 53,161 3,5	17 8,148 7,287 23,036	6 (D) (D) (D) 3.1	:::	4 30,099 29,104 91,541 3.0	1 (D) (D) (D)
Organizations reporting water from other sources used on land served by the organizations. acres served acres irrigated water delivered to famma (acre-feet) acresere-feet)	6,175 6,100 24,893 4.1	3 287 212 893 4.2		(D) (D) (D) 4.1	:::	::: :::	
NEW CAPITAL INVESTMENT, 1950-1959 Expenditures for additional new works and equipment for irrigation and drainage, January 1, 1950-becember 31, 1959	52 708,816 858,996	34 94,366	11 148,976	6 (D)		4 708,816 530,954	, (D)

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

			North Pacific Co	ast, excluding Co	lumbia River (I-A))	
Item		Mut	cual		U. S. Bureau	of Reclamation	
(For definitions and explanations, see text)	All types	Unincorporated	Incorporated	District	Projects and storage systems operated by bureau	Operated by water users	Commercial, Indian, State, city, and other
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959							
Total entering conveyance systemsorganizations acre-feet	111 279,610	86 64,873	17 26,475	7 (D)		4 148,521	(D)
From another drainage basinorganizations	36,356			(D)		2 36,356	:::
From drainage basin	• • • •	:::	:::		:::		
From sources within basinorganizations acre-feet	111 243,254	86 64,873	17 26,475	7 (D)		112,165	(D)
Surface waterorganizationsacre-feet	111 236,054	86 64,873	17 26,475	(D)	:::	112,165	(D
Ground waterorganizationsacre-feet	7,200	:::	•••	(D)	:::	:::	:::
From other organizations in the basin organizations receiving	1 9,987	:::	:::	1 (D)		1 9,987	:::
Total leaving conveyance systemsorganizations acre-feet	111 279,610	86 64,873	17 26,475	7 (D)		4 148,521	(D)
Conveyance loss in basinorganizations	79 51,877	60 10,783	12 2,790	7 (D)	:::	4 30,156	
Conveyed to another drainage basinorganizations	22,055			1 (D)		1 22,055	
To drainage basin number					:::	22,000	:::
Delivered for use in the basinorganizations acre-feet	111 205,678	86 54,090	17 23,685	7 (D)		96,310	(D)
To farm irrigation water usersorganizations acre-feet	111 199,162	86 54,054	17 23,036	(D)	:::	91,541	(D)
To domestic water usersorganizations acre-feet	10 6,343	3 26	3 448	(D)	:::	3 4,769	(D)
For other useorganizations acre-feet	3 473	10	201	:::	:::		(D)
Velivered to other irrigation organizations	1 9,987		:::	(D)	:::	9,987	
SIZE OF ORGANIZATION, 1959							
Size of organization (number of farm irrigation water users):							
Noneorganizations 1 to 3 water usersorganizations	1 44	41		(B)	:::	:::	(99) (9) (9) (9) (9) (9)
4 to 9 water usersorganizations 10 to 29 water usersorganizations	40 18	37 7	3 11	(D) (D)	:::	:::	(6)
30 to 99 water usersorganizations 100 to 299 water usersorganizations	2 3 2	:::	:	(D)	:::	1 2	(0)
300 to 999 water usersorganizations 1,000 or more water usersorganizations	1	:::	:::	(D)	:::	î	(D)
Size of organization (acre-feet of water delivered directly to farms):							
Noneorganizations 1 to 299 acre-feetorganizations	43	41	2	(a)	:::		(D)
300 to 999 acre-feetorganizations 1,000 to 2,999 acre-feetorganizations	37 19	28 13	8 5	(D) (D)	:::		(b)
3,000 to 9,999 acre-feetorganizations 10,000 to 29,999 acre-feetorganizations	7 4		2	(D) (D)	:::	3 1	(D) (D) (D) (D) (D)
30,000 to 99,999 acre-feetorganizations 100,000 or more acre-feetorganizations		:::			:::		
Size of organization (acre-feet of water conveyed):							
Noneorganizations 1 to 299 acre-feetorganizations	38	37		(D)	:::		(6)
300 to 999 acre-feetorganizations 1,000 to 2,999 acre-feetorganizations	35 26	29 16	6 8	(D) (D)	:::		(D)
3,000 to 9,999 acre-feetorganizations 10,000 to 29,999 acre-feetorganizations	7 2		2	(D) (D)	:::	2 2	(D) (D) (D) (D) (D) (D)
30,000 to 99,999 acre-feetorganizations 100,000 or more acre-feetorganizations	3	:::		(D)	:::		

D Data not shown to avoid disclosure of information for individual organizations. NA Not available.

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State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

		Colum	mbia River below S	Snake River, (Ore	gon, Washington)	(I-B)	
Item (For definitions and explanations, see text)		Mut	ual		U. S. Bureau	of Reclamation	Commercial
(Fig. delahistons and explanations, see text)	All types	Unincorporated	Incorporated	District	Projects and storage systems operated by bureau	Operated by water users	Indian, State, city, and other
Irrigation organizationsorganizations 1959 1949	175 216	113 150	37 42	21 20	2 2	11 NA	2 2
Service area, 1959: Area served, as reported by organizationsacres Area irrigated, as reported	245,981	19,343	40,469	(D)		148,473	(D)
by organizationsacres	237,480	18,350	37,402	(D)		146,171	(D)
Water users served, 1959, total	11,844 6,441 4,826 577	637 609 27 1	2,271 1,467 740 64	(D) (D) (D) 12		3,758 2,761 986 11	(D) (D) (D) (D)
TYPE OF SERVICE, 1959			,				
All water directly from surface and ground water sources. organizations. Total water conveyed	1,310,673 965,130	112 94,165 86,476	34 168,197 138,588	18 (D) (D)		903,821 635,070	(D)
To farm and residential users and other	674,453	86,476	136,412	(D)		391,259	(D)
irrigation organizationsorganizations Water to farm and residential	5		1	4		2	
users	269,605		1,900	(D)		228,265	
To other irrigation organizations onlyorganizations	21,072		276	(D)		15,546	
acre-feet Part of water from other							
organizationsorganizations	9,257	1 690	5,117	(D)	:::		
sources. acre-feet. From other irrigation organizations. acre-feet. Water delivered. acre-feet To farm and residential users only. organizations.	5,848 3,409 8,648	414 276 518	3,454 1,663 4,680	(D) (D) (D)			
acre-feet To farm and residential users and other	8,648	518	4,680	(D)			:::
irrigation organizationsorganizations Water to farm and residential usersacre-feet							
Water to other irrigation organizations							
onlyorganizations		:::					
All of water from other organizationsorganizations Total water conveyed	17,663 15,709		1 4,136 4,136	2 (D) (D)		1 9,747 8,773	
onlyorganizations acre-feet	3 15,709		4,136	2 (D)		1 8,773	
To farm and residential users and other irrigation organizationsorganizations							
Water to farm and residential usersacre-feet Water to other irrigation							
organizationsacre-feet To other irrigation organizations							
onlyorganizations acre-feet			:::			***	
No water conveyedorganizations WATER FROM OTHER SOURCES Organizations reporting no water from other	2			:::	2		:::
sources used on the land served by the organizations	150 146,500 140,485 595,128	103 17,911 17,015 83,208	32 34,546 31,496 121,383	14 (D) (D) (D)		7 74,623 73,688 344,377	1 (D) (D) (D)
organizations reporting water from other sources used on land served by the organizationorganizations	4.2	4.9	3.8	4.2		4.7	5.6
acres served water delivered to farms (acre-feet) acres irrigated acre-feet per acre	102,281 99,495 367,000 3,6	10 1,432 1,335 3,700 2.8	5,923 5,906 22,652 3.8	7 (D) (D) (D) 3.7	:::	73,850 72,483 276,523 3.8	1 (D) (D) (D) 0.9
NEW CAPITAL INVESTMENT, 1950-1959 Expenditures for additional new works and equipment for irrigation and drainage. January 1, 1950-becember 31, 1959	55 1,312,432 764,560	23 54,675	16 498,300 213,859	15 (D) (D)	:::	1,312,432 252,022	1 (D)

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

		Colw	mbia River below	Snake River, (Ore	gon, Washington)	(I-B)	
Item (For definitions and explanations, see text)		Mut	ual		U. S. Bureau of Reclamation		0
(101 011 011 011 011 011 011 011 011 011	All types	Unincorporated	Incorporated	District	Projects and storage systems operated by bureau	Operated by water users	Commercial, Indian, State, city, and other
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959							
otal entering conveyance systemsorganizations acre-feet	1,316,521	113 94,579	37 171,651	21 (D)	:::	903,821	(D
From another drainage basinorganizations acre-feet From drainage basin	4,364			(D)			
From sources within basinorganizations	170	113	36	19		10	
Surface waterorganizations	1,312,157 159	94,579 105	171,651 33	(D) 19	:::	903,821 10	(1)
acre-feet Ground waterorganizations acre-feet	1,305,939 13 6,218	91,665 8 2,914	170,364 4 1,287	(D)		903,821	(D (D
From other organizations in the basin organizations receiving	7 21,072	1 276	3 5,799	3 (D)		9,747	::
otal leaving conveyance systemsorganizations acre-feet	173 1,316,521	113 94,855	37 177,174	21 (D)		11 898,022	(D
Conveyance loss in basinorganizations acre-feet	112 329,590	71 7,689	21 29,211	18 (D)		10 268,852	(D
Conveyed to another drainage basinorganizations	1			. 1			
To drainage basin number	15,364	:::		(D)	:::	:::	::
Delivered for use in the basinorganizations	173	113	37	21		11	
To farm irrigation water usersorganizations acre-feet	971,567 173	87,166 113	147,963 37	(D) 21	:::	629,170	(D
To domestic water usersorganizations	952,128 17 16,287	86,908 2 86	144,035 7 3,093	(D) 6 (D)	:::	620,900 5 7, 397	(D
For other useorganizations acre-feet	10,257 10 3,152	1 172	5,095 5 835	(D)	:::	7,397 2 873	(D
Delivered to other irrigation organisations organisations delivering	5 21 , 072		1 276	4 (D)		2 15,546	::
SIZE OF ORGANIZATION, 1959							
ize of organization (number of farm irrigation water users);							
None organizations 1 to 3 water users organizations	2 71			(D) (D)	2		(D)
4 to 9 water usersorganizations 10 to 29 water usersorganizations	45 25	35	10 13	(D) (D)	:::1	 1	(D (D
30 to 99 water usersorganizations 100 to 299 water usersorganizations	20 7		8 2	(D) (D)	:::	3 4	(p (p (p (p (p (p
300 to 999 water usersorganizations 1,000 or more water usersorganizations			1	(D)	:::1		(D
dize of organization (acre-feet of water delivered directly to farms):							
Noneorganizations 1 to 299 acre-feetorganizations	2 47	42		(D) (D)	2		(D (D
300 to 999 acre-feetorganizations 1,000 to 2,999 acre-feetorganizations	56 36	44 24	10 9	(D) (D)	::::		(D (D (D
3,000 to 9,999 acre-feetorganizations 10,000 to 29,999 acre-feetorganizations 30,000 to 99,999 acre-feetorganizations 100,000 or more acre-feetorganizations	18 9. 5	3 	10 3 	(D) (D) (D) (D)	:::	2 3 4 2	(D (D (D
ize of organization (acre-feet of water conveyed):	Ĭ			(2)		-	(**
Noneorganizations 1 to 299 acre-fectorganizations	2 41		2	(D) (D)	2		(D (D
300 to 999 acre-feetorganizations 1,000 to 2,999 acre-feetorganizations	57 33	44 26	12 6	(D) (D)			(D)
3,000 to 9,999 acre-feetorganizations	23 9	4	12 4	(D) (D)		2	(D) (D) (D) (D)
30,000 to 99,999 acre-feetorganizations 100,000 or more acre-feetorganizations	8 2		1	(D)		6 2.	(D

D Data not shown to avoid disclosure of information for individual organizations. NA Not available.

	Shake	River below Weis	er, Idaho and Sna	ke River, Weiser	, Idaho to King Hi	ll, Idaho (I-E a	nd I-F)
Item (For definitions and explanations, see text)		Mut	ual		U. S. Bureau o	of Reclamation	Commercial.
(101 serial scale supraid some, see see,	All types	Unincorporated	Incorporated	District	Projects and storage systems operated by bureau	Operated by water users	Indian, State, city, and other
Irrigation organizationsorganizations 1959	296 334	232 268	54 54	10 10	2	7 NA	
Service area, 1959: Area served, as reported by organizations	346,417	121,351	84,830	140,236		105,352	
by organizationsacres	322,272	107,105	80,417	134,750		101,699	
Water users served, 1959, total. water users. Farm irrigation water users. water users. Residential water users water users. Other water users. water users.	5,091 4,800 291	1,312 1,272 40	1,307 1,111 196	2,472 2,417 55		1,979 1,928 51	::
TYPE OF SERVICE, 1959							
All water directly from surface and ground water sources. organizations. Total water conveyed	290 1,391,207 1,198,592	232 394,148 352,351 231	51 247,227 215,753 50	7 749,832 630,488		637,728 536,298	
To farm and residential users and other	719,716	335,026	212,738	171,952		95,150	
irrigation organizationsorganizations Water to farm and residential	5 292,902	•••	1 2 110	200 802		3	
users	,		2,110	290,792	***	275,124	
organizationsacre-feet To other irrigation organizations onlyorganizations	168,649		905	167,744		167,744	
acre-feet	17,325	17,325					
Part of water from other organizations	3 203,348	:::	68,083 2	1 135,265	:::	135,265	::
sources	34,699 168,649	:::	35,899 32,184	1-1,200 136,465		1-1,200	
Water deliveredacre-feet To farm and residential users onlyorganizations	94,186	:::	62,468	31,718	:::	136,465 31,718	::
To farm and residential users and other	94,186		62,468	31,718		31,718	
irrigation organizationsorganizations Water to farm and residential usersacre-feet						•••	
Water to other irrigation organizationsacre-feet							
To other irrigation organizations onlyorganizations acre-feet							
All of water from other organizationsorganizations	1		1				
Total water conveyedacre-feet Water deliveredacre-feet To farm and residential users	17,325 17,325		17,325 17,325				::
onlyacre-feet	17,325		17,325				
To farm and residential users and other irrigation organizationsorganizations							
Water to farm and residential usersacre-feet							
Water to other irrigation organizationsacre-feet							
To other irrigation organizations onlyorganizations							
No water conveyedorganizations		:::					
WATER FROM OTHER SOURCES Organizations reporting no water from other sources used on the land served by the						٤	
organizationorganizations acrea served acrea irrigated water delivered to farms (acre-feet)	255 293,198 273,609 1,042,269	209 105,314 95,180 299,925	41 63,484 59,515 211,625	5 124,400 118,914 530,719		105,016 101,363 470,069	
acre-feet per acre Organizations reporting water from other sources used on land served by the organization	3.8	3.1	3.5	4.5		4.6	
acrea served acres irrigated water delivered to farms (acre-feet) acre-feet per acre	217,650 213,094 851,522 4.0	16,037 11,925 34,932 2.9	21,346 20,902 81,206 3.9	180,267 180,267 735,384 4.0		162,267 162,267 687,864 4.2	
NEW CAPITAL INVESTMENT, 1950-1959 Expenditures for additional new works and equipment for irrigation and drainage, January 1, 1950-becember 31, 1959	146 844,893	201,779	27 190,201	6 452,913	::::	420,413	•••

State Table 4.-NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950-Con.

	Snake	River below Weise	r, Idaho and Snak	e River, Weiser,	Idaho to King Hill	, Idano (I-E and	1-F)
Item (For definitions and explanations, see text)		Mut	ual		U. S. Bureau o	f Reclamation	Commercial.
	All types	Unincorporated	Incorporated	District	Projects and storage systems operated by bureau	Operated by water users	Indian, State, city, and other
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959							
Total entering conveyance systemsorganizations acre-feet	295 1,425,906	232 394,148	54 283,126	748,632	:::	637,928	::
From another drainage basin,organizations acre-feet	24,283			2 24,283	:::	1 11,957	
From drainage basin	***	:::	:::		:::		::
From sources within basinorganizations	294 1.401.623	232 394,148	53 283,126	724,349	:::	1-624,571	::
Surface waterorganizations acre-feet	294 1,170,701	232 394,047	53 283,126	493,528	:::	1-393,750	::
Ground waterorganizations	230,922	2 101		230,821	:::	230,821	::
From other organizations in the basin organizations receiving	4		3	1		1	
acre-feet Total leaving conveyance systemsorganizations	185,974 295	232	49 , 509	136,465 9		136,465	
acre-feet	1,425,906	376,823	331,730	717,353		606,649	
Conveyance loss in basinorganizations acre-feet	250 200,576	196 41,797	45 37,089	121,690	:::	102,056	::
Conveyed to another drainage basinorganizations acre-feet	101,201			101,201		101,201	::
To drainage basin number							
Delivered for use in the basinorganizations acre-feet	294 1,124,129	231 335,026	54 294,641	9 494,462	:::	5 401,992	::
To farm irrigation water nsersorganizations acre-feet	294 1,121,346	231 334,857	54 292,831	9 493,658	:::	401,238	::
To domestic water usersorganizations	13 2,783	6 169	1,810	2 804	:::	1 754	l ::
For other useorganizations acre-feet							::
Delivered to other irrigation organizations delivering acre-feet	3 185,974	17,325	1 905	1 167,744	:::	1 167,744	::
SIZE OF ORGANIZATION, 1959							
Size of Organization (number of farm irrigation where users) organizations. None. organizations. 1 to 3 water users. organizations. 4 to 9 water users. organizations. 30 to 99 water users. organizations. 100 to 299 water users. organizations. 300 to 999 water users. organizations. 1,000 or zore water users. organizations. organizations. organizations.	3 90 135 50 12 1 3 2	1 90 115 24 2 	 20 26 7 1	2 3 2		2 2 3	
Size of organization (acre-feet of water delivered directly to farms):	3 59 90 81 44 12 43	1 57 79 66 26 3	2 11 15 18 7 1	2 2 3 3	::: ::: ::: :::	2 	
Size of organization (acre-feet of water conveyed): None.	2 47 88 80 96 16 3	45 79 69 34 5	2 9 11 22 9	2		2 	::: ::: :::

MA Not available.

MA Not available surface water supply in the basin and released to natural stream channels in excess of the quantity of surface water withdrawn by irrigation organizations. The net effect was to increase the available surface water supply in the basin or State.

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			KI	amath River (II-	1)		
Item (For definitions and explanations, see text)	-	Mut	ual		U. S. Bureau	of Reclamation	Commercial.
	All types	Unincorporated	Incorporated	District	Projects and storage systems operated by bureau	Operated by water usera	Indian, State, city, and other
Irrigation organizationsorganizations 1959	38 33	13 16	5 4	18	1	13 NA	1 2
Service area, 1959: Area served, as reported by organizationsacres	181,783	10,606	9,119	147,288	13,310	118,820	1,460
Area irrigated, as reported by organizationsacres	170,823	10,570	8,333	137,815	12,645	114,998	1,460
Water users served, 1959, total	6,385 1,549 4,835 1	64 	113 113 	6,156 1,322 4,833 1	32 30 2	6,170 1,336 4,833	20
TYPE OF SERVICE, 1959							
All water directly from surface and ground water cources	31 1,075,707 514,169	13 36,625 31,787	10,017 9,116	13 977,064 421,265	44,701 44,701	887,871 357,468	7,300 7,300
onlyorganizations acre-feet	225,762	31,787	9,116	132,858	44,701	69,061	7,300
To farm and residential users and other irrigation organizationsorganizations Water to farm and residential	3			3		3	
water to other irrigation	226,593			226,593		226,593	
organizationsacre-feet To other irrigation organizations	61,814			61,814		61,814	
onlyorganizations acre-feet		:::	:::	:::	:::		:::
Part of water from other organizations. organizations. Total water conveyed	7 58,759		2 18,633	5 40,126		6 79,591	:::
Sources and ground water sources acre-feet. From other irrigation organizations. acre-feet. Water delivered. acre-feet. To farm and residential users	1-3,055 61,814 46,958		1-876 19,509 14,852	1-2,179 42,305 32,106		1-2,989 60,525 45,944	
onlyorganizations	7 46,958		2 14,852	5 32 , 106		6 45,944	
To farm and residential users and other irrigation organizationsorganizations Water to farm and residential	40,936			32,100		43,944	
usersacre-feet Water to other irrigation	•••						
organizationsacre-fect To other irrigation organizations	•••						
onlyorganizations acre-feet	•••	:::		:::	:::		:::
All of water from other organizationsorganizations Total water conveyedacre-feet	:::		:::	:::	:::		:::
Water deliveredacre-feet To farm and residential users onlyorganizations						•••	
To farm and residential users and other	:::	:::	:::	:::	:::		
irrigation organizationsorganizations Water to farm and residential							
usersacre-feet Water to other irrigation	•••						
organizationsacre-feet To other irrigation organizations						•••	
onlyorganizations acre-feet			:::	:::	:::		:::
No water conveyedorganizations	•••	•••				•••	
WATER FROM OTHER SOURCES Organizations reporting no water from other sources used on the land served by the organization	37	12		18		13	,
acres served acres irrigated water delivered to farms (acre-feet) acre-feet per acre	268,575 256,342 678,440	8,606 8,570 29,257 3,4	9,119 8,333 23,968 2,9	228,430 218,067 547,915 2.5	20,960 19,912 70,000	205,534 200,036 511,794 2.6	1,460 1,460 7,300 5.0
Organizations reporting water from other sources used on land served by the organizations acres served acres frigated	2,000 2,000	2,000 2,000					
water delivered to farms (acre-feet) acre-feet per acre	2,530 1.2	2,530 1.2	:::	:::	:::	:::	:::
NEW CAPTAL INVESTMENT, 1990-1959 Expenditures for additional new works and equipment for irrigation and drainage, January 1, 1950-becember 31, 1959organizations. By U. S. B. R	21 1,884,883 3,195,788	13,196	 27,225	10 3,155,3€7	1,884,883	8 3,143,156	:::

			K1.	amath River (II-	1)		
Item (For definitions and explanations, see text)		Mut	us1		U. S. Bureau c	of Reclamation	Commercial,
(101 del mil espanoscolo, ese vert)	All types	Unincorporated	Incorporated	District	Projects and storage systems operated by bureau	Operated by water users	Indian, State, city, and other
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959							
Total entering conveyance systemsorganizations acre-feet	37 1,072,652	13 36,625	9,141	17 974,885	44,701	906,937	7,300
From another drainage basinorganizations acre-feet From drainage basin	22,055			22,055	:::	22,055	
From sources within basinorganizations	37	13	5	17	1	13	",
acre-feet Surface waterorganizations	1,050,597 37	36,625 13	9,141 5	952,830 17	44,701	884,882	7,300
acre-feet Ground waterorganizations acre-feet	1,032,178 1 18,419	36,625	9,141	934,411 1 18,419	44,701	866,463 1 18,419	7,300
From other organizations in the basin organizations receiving	7 61,814	:::	19,509	42 , 305	:::	60,525	:::
Total leaving conveyance systemsorganizations acre-feet	37 1,072,652	13 36,625	5 28,650	17 955,376	1 44,701	14 905,648	1 7,300
Conveyance loss in basinorganizations acre-feet	28 121,214	11 4,838	5 4,682	12 111,694	:::	9 111,925	:::
Conveyed to another drainage basinorganizations acre-feet	4 4 22 250			4 423,389		423,389	
To drainage basin number	423,389	:::		423,389	:::	423,369	
Delivered for use in the basinorganizations acre-feet	36 528,049	13 31,787	5 23,968	16 420,293	1 44,701	12 370,334	7,300
To farm irrigation water usersorganizations acre-feet	36 493,063	13 31,787	23,968	16 385,557	1 44,451	12 335,598	7,300
To domestic water usersorganizations acre-feet	6,250			6,000	1 250	6,000	:::
For other useorganizations acre-feet	1 28,736	:::	:::	28,736		1 28,736	:::
Delivered to other irrigation organizations delivering organizations delivering acre-feet	2 61,814	:::	:::	2 61,814		61,814	:::
SIZE OF ORGANIZATION, 1959							
Size of Organization (number of ferm irrigation water users) None	9 9 6 10	6 6 1 	 1 1 2 	2 2 3 7	 1 	1 8 	 1
Size of organization (core-feet of water delivered directly to ferme): organizations. None. : organizations. 1 to 299 acre-feet. organizations. 300 to 999 acre-feet. organizations. 3,000 to 9,999 acre-feet. organizations. 3,000 to 9,999 acre-feet. organizations. 10,000 to 9,999 acre-feet. organizations. 30,000 to 99,999 acre-feet. organizations. 10,000 to 99,999 acre-feet. organizations. 100,000 or ower acre-feet. organizations.	1 4 10 10 8 3 2	 4 6 3 	3 1 1	1 1 5 7 2 2	 	 1 3 5 2 2	 1
Size of organization (acre-feet of water conveyed):	 1 4 10 9 8 3 3	 4 6 3 		 1 1 4 7 2 3	 	 1 1 1 6 2 3	::: ::: ::: :::

NA Not available.

"Water was transferred to the basin and released to natural stream channels in excess of the quantity of surface water withdrawn by irrigation organizations. The net effect was to increase the available ourface water supply in the basin or State.

State Table 5.—NUMBER OF IRRIGATION ORGANIZATIONS, TYPE OF SERVICE, NEW CAPITAL INVESTMENT. AND WATER CONVEYED, BY SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUS OF 1959

Item		Oregon,	total		North Pac	eific Coast ex		nbia River
(For definitions and explanations, see text)			Size of or	ganization, b	y total water			
	0-999 acre-feet	1,000- 9,999 acre-feet	10,000- 99,999 acre-feet	100,000 or more scre-feet	0-999 acre-feet	1,000- 9,~~q acre-feet	10,000- 99,999 acre-feet	100,00 or mor acre-fe
Number of organizations	326	262	53	9	73	33	5	
ull water directly from surface and ground sourcesorganizations	321 132,875	251 731.725	47 1,329,091	8	73 23,879	33 77,210	173,008	
Total water conveyedacre-feet Water deliveredacre-feet	118,088	641,917	1,043,109	1,946,010 1,196,373	20,316	64,579	117,297	
To farm and residential users onlyorganizations acre-feet	321 118,088	249 636,726	897,659	262,547	73 20,316	64,579	90,790	
To farm and residential users and other		2	5	5			1	
irrigation organizations		4,010 1,181	107,089 21,036	694,521 239,305	***		16,520 9,987	
To other irrigation organizations onlyorganizations			1					
acre-feet eart of water from other organizationsorganizations			17,325					
Total water conveyedacre-feet	690 414	32,130 10,411	118,779 33,380	135,265			15,500	
From surface and ground water sourcesacre-feet From other irrigation organizationsacre-feet	276	21,719	85,399	1,200 136,465		:::	5,513 9,987	
Water deliveredacre-feet To form and residential users onlyorganizations	518 1	25,247 8	105,309	31,718			13,000	
To farm and residential users and other	518	25,247	105,309	31,718			13,000	
irrigation organizationsorganizations								
Water to other irrigation organizationsacre-feet	:::	:::	:::	:::	:::	:::	:::	
To other irrigation organizations onlyorganizations scre-feet	:::					:::		
ull of water from other organizationsorganizations		3	1					
Total water conveyed		17,663 15,709	17,325 17,325					
To farm and residential users onlyorganizations acre-feet		15,709	17,325					
To farm and residential users and other irrigation organizationsorganizations			·					
Water to farm and residential usersacre-feet								}
Water to other irrigation organizationsacre-feet To other irrigation organizations onlyorganizations		:::	:::	:::	:::		:::	İ
acre-feet								
No water conveyedorganizations WATER FROM OTHER SOURCES	4	···						1
Organizations reporting NO water from other sources used								
on land served by the organizationorganizations acres served	291 61,299	241 206,308	39 252,240	289.973	70 9.888	33 16,592	30,099	-
acres irrigated	44,904	196,761	234,101	284,248	7,857	16,463	29,104	
Organizations reporting water from other sources used on land served by the organizationorganizations	31	21	13	3	3		1	
acres served acres irrigated	9,933 7,302	22,759	86,522 82,532	212,267	287 212		5,888 5,888	
NEW CAPITAL INVESTMENT, 1950-1959	1,,,,,,,	,	02,132	222,000			,,,,,,	
Expenditures for additional new works and				İ		i		
equipment for irrigation and drainage, January 1, 1950-December 31, 1959organizationa	113	125	32	7	28	19	5	
dollars	347,287	1,102,502	3,943,875	4,195,204	126,735	186,307	1,254,770	
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959 Total entering conveyance systems in basinorganizations	322	262	53		73	33	-	
acre-feet	133,289	742,136	1,362,471	1,944,810	23,879	77,210	178,521	
From another drainage basinorganizations acre-feet			16,690	11,957			36,356	
From Drainage Basin number	322	259	I-F-1 52	9	73	33		
acre-feet Surface waterorganizations	133,289	742,136 259	1,345,781	1,932,853	23,879	77,210	142,165	1
acre-feet Ground waterorganizations	129,185	739,921	1,338,581	1,683,613	23,879	77,210	134,965	
acre-feet	4,104	2,215	7,200	249,240			7,200	
From other organizations in the basinorganizations receiving acre-feet	276	39, 382	102,724	136,465	:::		9,987	
Total leaving conveyance systemsorganizations acre-feet	322 133,565	262 780,337	53	9	73 23,879	33	5	
Conveyance loss in basinorganizations	225	225	1,426,834	1,841,970	46	77,210	178,521	
acre-feet Conveyed to another drainage basinorganizations	14,625	96,237	283,205 1	336,214	3,553	12,168	36,156	
To drainage basin number			15,364	488,234		:::	22,055	
Delivered for use in the basinorganizations acre-feet	322 118,940	262 684,100	1,128,265	1,017,522	73 20,326	65,042	120,310	
To farm irrigation water usersorganizations acre-feet	322 118,029	262 673,333	1,120,265	984,032	73 20,246	63,375	120,310	
To residential water usersorganizations	12	14	16		4	3	3	
for other usearganizations	577 4	8,359	17,723	4,754	70 1	1,204	4,769	
acre-feet Delivered to other impation organizationsorganizations delivering	334	2,408	883	28,736	10	463		
acre-feet		1,181	38,361	239,305			9,987	
AVERAGE DELIVERY OF IRRIGATION WATER PER ACRE, 1959								
Per acre irrigated, as reported by irrigation organization: All organizations:	2.3	3.0	3.7	4.5	2.5	3.8	3.3	
Organizations reporting MO water from other sources used on land served by the organizationorganizations	291	241	39	6	70	33	4	
acre-feet	2.3	3.1	3,5	3.5	2.5	3.8	3.1	

¹Water was transferred to the basin and released to natural stream channels in excess of the quantity of surface water withdrawn by irrigation organizations. The net effect was to increase the available surface water supply in the basin or State.

State Table 5.-NUMBER OF IRRIGATION ORGANIZATIONS, TYPE OF SERVICE, NEW CAPITAL INVESTMENT, AND WATER CONVEYED, BY SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUS OF 1959-Continued

(For definitions and explanations, see text)	Columbia F (Oreg	a River bel River, total gon, Washin (I-B)	l gton)	Idaho and S Idaho to (I-	King Hill E end I-F)	r, Weiser, , Idaho		(11	h River	
(101 del 21 escale del expedience)	0-999	1,000-	10,000 or more	of organiz	1,000- 9,999	10,000 or more	0-999	1,000-	10,000- 99,000	100,000 or more
	acre-feet	acre-feet	acre-feet	acre-feet	acre-feet	acre-feet	acre-feet	acre-feet	acre-feet	acre-feet
Number of organizationsorganizations TYPE OF SERVICE	100	56	19	137	136	23	5	19	11	
All water directly from surface and ground sourcesorganizations	97	50	19	135	135	20	5	15	8	İ
Total water conveyedacre-feet Water deliveredacre-feet	39,827 36,942	149,310 131,343	1,121,536 796,845	60,070 53,103	387,065 340,242	944,072 805,247	2,628	63,080	198,171 160,330	811,82 294,67
To farm and residential users onlyorganizations	97 36,942	129,167	15 508,344	53,103	134 337, 227	16 329.386	2,274	15 56,894	160.330	6,20
To farm and residential users and other irrigation organizationsorganizations	· · · ·	1			1	4	_,_,	,	1	,,,,,
Water to farm and residential usersacre-feet	:::	1,900 276	267,705 20,796		2,110 905	290,792 167,744				226,5
Water to other irrigation organizationsacre-feet To other irrigation organizations onlyorganizations	:::					1	:::			61,8
acre-feet						17,325				
Part of water from other organizationsorganizations Total water conveyedacre-feet	690 414	8,567			6,804	196,544	:::	16,759	42,000	:
From surface and ground water sourcesacre-feet From other irrigation organizationsacre-feet	276	5,434 3,133	:::	:::	5,899 905	28,800 167,744		17,681	1-2,133 44,133	:
Water deliveredacre-feet To farm and residential users onlyorganizations	518	8,130	:::	:::	4,253	89,933		12,864	34,094	
acre-feet To farm and residential users and other	518	8,130			4,253	89,933		12,864	34,094	:
irrigation organizationsorganizations										
Water to farm and residential usersacre-feet Water to other irrigation organizationsacre-feet	:::		:::	:::		-::			:::	::
To other irrigation organizations onlyorganizations acre-feet									:::	
All of water from other organizationsorganizations		3				1		l		::
Total water conveyed		17,663 15,709				17,325 17,325			:::	
To farm end residential users onlyorganizations		´ э				1				::
To farm and residential users and other		15,709				17,325				
irrigation organizationsorganizations			:::						:::	:
Water to farm and residential usersacre-feet Water to other irrigation organizationsacre-feet										
To other irrigation organizations onlyorganizations acre-feet	:::		:::	:::	:::				:::	::
No water conveyedorganizations	2			2						
WATER FROM OTHER SOURCES										
Organizations reporting NO water from other sources used on land served by the organizationorganizations	86	52	12	119	122	14	5	18	11	
acres served acres irrigated	12,469	35,228 33,041	98,803 97,277	29,785	107,145	156,268	817 808	22,231	107,190 96,985	138,33
Organizations reporting water from other sources used			,	,						
on land served by the organizationorganizations acres served	2,369	5,662	94,250	7,277	11,722	198,651		2,000	:::	::
acres irrigated	2,255	5,662	91,578	4,835	10,926	197,333		2,000		
NEW CAPITAL INVESTMENT, 1950-1959 Expenditures for additional new works and										
equipment for irrigation and drainage,	29	13	13	56	78					
January 1, 1950-December 31, 1959organizations	157,955	574,133				122				
			1,344,904	62,597	235,978	546,318		87,584	2,131,828	2,861,25
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959		,	1,344,904	62,597	235,978			12 87,584	2,131,828	2,861,25
Total entering conveyance systems in basinorganizations	98 40.241	56	19	135	136	23		19	10	
Total entering conveyance systems in basin	40,241	56 154,744	19 1,121,536 1	135 60,070	136 391,564	23 974,272 2	5 24,683	19 62,158	10 196,038	789,77
Total entering conveyance systems in basin organizations acre-feet From another drainage basin organizations acre-feet From Drainage Basin number D. B. No.	40,241	56 154,744 	19 1,121,536 1 4,364	135 60,070 	136 391, 564 	23 974,272 2 24,283		19 62,158 	10 196,038 	789,7
Total entering conveyance systems in basin. organizations. acre-feet. From another drainage basin. organizations acre-feet.	40,241 98 40,241	56 154,744 53 154,744	1,121,536 1 4,364 19	135 60,070 135 60,070	136 391,564 136 392,964	23 974,272 2 24,283 23 948,589	24,683 1 22,055	19 62,158 19 62,158	10 196,038 10 196,038	789,77
Total entering conveyance systems in basin. organizations acre-feet. From another drainage basin. organizations From Prainage Basin number. D. B. No. From natural sources within basin organizations Gurface water. organizations	40,241 98 40,241 87	56 154,744 53 154,744 53	1,121,536 1,4,364 19 1,117,172	135 60,070 135 60,070 135	136 391,564 136 392,964 136	23 974,272 2 24,283 23 948,589 23	24,683 1 22,055 2,628	19 62,158 19 62,158	10 196,038 10 196,038	789,77
Total entering conveyance systems in basin. organizations acrefree. From another drainage basin. organizations acrefree. From Prainage Basin number	40,241 98 40,241 87 36,238	56 154,744 53 154,744 53 152,529 2	19 1,121,536 1 4,364 19 1,117,172 1,117,172	135 60,070 135 60,070 135 59,969	136 391,564 136 392,964 136 392,964	23 974,272 2 24,283 23 948,589 23 717,768	24,683 1 22,055 2,628 5 2,628	19 62,158 19 62,158 19 62,158	10 196,038 10 196,038 10 196,038	789,77 789,77 771,35
Total entering conveyance systems in basin. organizations acre-feet. From another drainage basin. organizations premium organizations. From Drainage Basin mumber. D. B. No. From natural sources within basin. organizations organizations. Surface water. organizations Ground water. organizations acre-feet. From other organizations in the basin. organizations acre-feet.	40,241 98 40,241 87 36,238 11 4,003	56 154,744 53 154,744 152,529 2 2,215 6	19 1,121,536 1 4,364 19 1,117,172	135 60,070 135 60,070 135 59,969 2 101	136 391,564 136 392,964 136 392,964 	23 974,272 2 24,283 23 948,589 23 717,768 1 230,821	24,683 1 22,055 5 2,628 	19 62,158 19 62,158 19 62,158	10 196,038 10 196,038 10 196,038	789,77 789,77 771,35
Total entering conveyance systems in basin. organizations enreferent enrefere	40,241 98 40,241 87 36,238 11 4,003	56 154,744 53 154,744 53 152,529 2 2,215	19 1,121,536 1 4,364 19 1,117,172 19 1,117,172	135 60,070 135 60,070 135 59,969 2	136 391,564 136 392,964 136 392,964 1 1 905	23 974,272 2 24,283 23 948,589 23 717,768	24,683 1 22,055 5 2,628 5 2,628 	19 62,158 19 62,158 62,158 4 17,681	10 196,038 10 196,038 10 196,038 3 44,133	789,77 789,77 771,39
Total entering conveyance systems in basin. organizations. From another drainage basin. organizations. acre-feet. From Drainage Basin number D. B. No. From sturninger Basin number D. B. No. From sturninger Basin number organizations. acre-feet. Surface water organizations acre-feet. Ground water organizations acre-feet. From other organizations in the basin organization servicet. Surface water organizations receiving.	40,241 98 40,241 4,003 11 4,003 1276 98 40,517	56 154,744 53 154,744 53 152,529 2 2,215 6 20,796	19 1,121,536 1 4,364 19 1,117,172 19 1,117,172 19 1,100,740	135 60,070 135 60,070 135 59,969 2 101 	136 391,564 136 392,964 1 905 136 391,564	23 974,272 2 24,283 948,589 23 717,768 230,821 3 185,069 24 974,272	24,683 22,055 5 2,628 5 24,683	19 62,158 19 62,158 4 17,681 19 79,839	10 196,038 10 196,038 10 196,038 3 44,133	789,77 789,77 771,35
Total entering conveyance systems in basin. organizations enverteet. From another drainage basin. organizations enverteet. From Drainage Basin number	40,241 	56 154,744 53 154,743 152,529 2 2,215 6 20,796 175,264 44 18,413	19 1,121,536 1 4,364 19 1,117,172 19 1,117,172	135 60,070 135 60,070 135 59,969 2 101 135 60,070 112 60,070	136 391,564 136 392,964 136 392,964 1 905 136 391,564 149,374	23 974,272 24,283 23 948,589 23 717,768 1 230,821 3 185,069	24,683 1 22,055 5 2,628 5 2,628 	19 62,158 19 62,158 41 7,681 19 79,839 17 10,081	10 196,038 10 196,038 10 196,038 3 44,133	789,77 789,77 771,35 18,41 727,95
Total entering conveyance systems in basin. organizations aprefer aprefer another drainage basin. organizations. From Drainage Basin number. D. B. No. From sturnle source setting and source setting acre-feet. From Drainage Basin number. D. B. No. From sturnle source within basin. organizations acre-feet. Surface water. organizations acre-feet. Ground water. organizations acre-feet. From other organizations in the basin. organizations receiving. Total leaving conveyance systems. organizations Conveyance loss in basin. organizations. Conveyed to another drainage basin. organizations. Conveyed to another drainage basin. organizations.	40,241 .98 40,241 87 36,238 11 4,003 1 1 276 98 40,517 52 2,733 	56 154,744 53 154,744 152,529 2,215 6 20,796 175,264 4,18,413	19 1,121,536 1 4,364 19 1,117,172 19 1,117,172 19 1,100,740 16	135 60,070 135 60,070 135 59,969 2 101 135 60,070	136 391,564 136 392,964 136 392,964 1 905 136 391,564	23 974,272 24,283 23 948,589 23 717,768 1 230,821 185,069 24 974,272	24,683 22,055 2,628 5 2,628 5 2,628 	19 62,158 19 62,158 19 62,158 19 62,158 17,681	10 196,038 10 196,038 10 196,038 3 44,133 10 240,171 5	789,77 789,77 771,35 18,41 727,95
Total entering conveyance systems in basin. organizations acv-feet. From another drainage basin. acv-feet. From Preinage Basin number. D. B. No. From Drainage Basin number. D. B. No. From prainage Basin number. D. B. No. From prainage Basin number. D. B. No. From prainage Basin number. D. B. No. From organizations organizations organizations organizations organizations acre-feet. Ground water. organizations in the basin. organizations acre-feet. From other organizations in the basin. organizations acre-feet. Conveyance loss in basin. organizations organizations organizations. Conveyance loss in basin. organizations organizations. Conveyance to another drainage basin. organizations acre-feet. To drainage basin number. D. B. No.	40,241 .98 40,241 87 36,238 11 4,003 1 1 276 98 40,517 52 2,733 	56 154,744 53 154,744 152,529 2,215 6 20,796 175,264 4,18,413	19 1,121,536 1 4,364 19 1,117,172 19 1,100,740 308,444	135 60,070 135 60,070 135 59,969 2 101 135 60,070 112 6,967	136 391,564 136 392,964 905 136 391,564 49,374	23 974,272 24,283 23,948,589 23,717,768 1 230,821 185,069 24,272 20,144,235	5 24,683 1 22,055 5 2,628 5 2,628 5 24,683 4 354	19 62,158 19 62,158 19 62,158 4 4 17,681 19 79,839 17 10,081	10 196,038 10 196,038 10 196,038 3 44,133 10 240,171 5 31,446	789,77 789,77 771,3: 18,41 727,9: 79,33
Total entering conveyance systems in basin. organizations enrefert. From another drainage basin. organizations acre-feet. From brainage Basin number D. B. No	40,241 98 40,241 11 4,003 11 276 98 40,517 52 2,733 	56 154,744 	1,121,536 4,364 1,117,172 1,117,172 1,100,740 1,100,740 1,100,740 1,100,740 1,100,740 1,740,740 1,740,740 1,740,740	135 60,070 	136 391,564 136 392,964 1 905 1391,564 118 49,374 136 343,590	23 974,272 24,283 24,283 948,589 948,589 23 717,768 1 230,821 230,821 24 4974,272 20 144,235 1 101,201 23 727,436	5 24,683 1 22,055 5 2,628 5 2,628 5 24,683 4 354 1 22,055	19 62,158 19 62,158 19 62,158 4 17,681 19 79,839 77,10,081 19 69,758	10 196,038 10 196,038 10 196,038 240,171 10 240,171 11,4,301	789,77 789,77 771,3: 18,41 727,9: 79,33
Total entering conveyance systems in basin. organizations enverteet. From another drainage basin. organizations enverteet. From brainage Basin number	40,241 	56 154,744 .53 154,744 .53 152,529 2,215 6 20,796 175,264 4 18,413 	1,121,536 4,364 1,117,172 1,117,172 1,100,740 16 308,444 15,364 	135 60,070 	136 391,564 136 392,964 136 392,964 136 391,564 118 49,374	23 974,272 24,283 23 948,389 717,768 1 230,821 3 185,069 24 974,272 20 144,235 101,201 23	5 24,683 1 22,055 5 2,628 5 24,683 4 354 4 122,055 5 2,274	19 62,158 19 62,158 19 62,158 4 17,681 19 79,839 17 10,081 19 69,758	10 196,038 10 196,038 10 196,038 34,133 10 240,171 1 14,001	789,77. 789,77. 7771,33 18,41
Total entering conveyance systems in basin. organizations are-feet aper-feet aper-feet. From another drainage basin. organizations. acre-feet. From brainage Basin number. D. B. No. From shural sources within basin organizations acre-feet. Surface water. organizations acre-feet. Ground water. organizations acre-feet. From other organizations in the basin. organizations acre-feet. Total leaving conveyance systems. organizations acre-feet. Conveyance loss in basin organizations. Conveyance loss in basin organizations. Conveyed to another drainage basin. organizations. To drainage basin number. D. B. No. Delivered for use in the basin. organizations. To fram irrigation water users. organizations.	40,241	56 154,744 	1,121,536 1,4,364 1,4,364 1,17,172 1,117,172 1,117,172 1,117,172 1,100,740 16 308,444 1,1 15,364 19,776,932	135 60,070 135 60,070 135 59,969 2 101 135 60,070 112 60,070 112 6,967 	136 391,564 136 392,964 11 905 136 391,564 18 49,374 49,374 49,374 343,590	23 974,272 24,283 23 948,589 23 717,768 1 230,821 230,821 3 185,069 24 974,272 20 144,235 1 101,201 23 727,436	5 24,683 1 22,055 5 2,628 5 24,683 4 354 1 22,055 2,628 5 2,628 	19 62,158 19 62,158 19 62,158 19 62,158 19 79,839 117,681 19 69,758	10 196,038 10 196,038 10 196,038 44,133 10 240,171 5 31,446 11 14,001	789,7 789,7 771,3: 18,4: 727,9: 79,3: 387,0: 261,5: 228,8:
Total entering conveyance systems in basin. organizations enrefered. From another drainage basin. organizations acre-feet. From brainage Basin number D. B. No. Prom attend sources within basin. organizations acre-feet. Surface water. organizations acre-feet. Ground water. organizations acre-feet. From other organizations in the basin. organizations acre-feet. Conveyance loss in basin. organizations acre-feet. Conveyance loss in basin. organizations acre-feet. Conveyance loss in basin. organizations organizations Conveyance loss in basin. organizations To drainage basin number D. B. No. Delivered for use in the basin. organizations To farm irrigation water users organizations To farm irrigation water users organizations To residential water users organizations For other use. organizations	40,241 	56 154,744 	1,121,536 1,4,364 1,117,172 1,117,172 1,117,172 1,117,172 1,100,720 1,100,72	135 60,070 60,070 135 59,962 101 6,967 	136 391,564 136 392,964 1905 1905 13391,564 49,374 49,374 343,590 343,590 343,609 981	23 974,272 24,283 	5 24,683 1 22,055 5 2,628 6 5 2,628 6 5 2,628 1 1 22,055 5 2,628 6 5 2,628 6 5 2,628 6 5 2,628 6 5 2,628 6 5 2,628 6 5 2,628 6 5 2,628 6 1 2,298 6 2,298 6 1 2,298 6 1 2,298 6 1 2,298 6 1 2,298 6 1 2,298 6 1 2 2,298 7 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	19 62,158	100 196,038 100 196,038 31 44,133 10 240,171 114,001 91 124,24 91 124,271 94,424 91 124,271	789,7 789,7 771,3: 18,4: 727,9: 79,3: 387,0: 261,55 228,8: 4,00
Total entering conveyance systems in basin. organizations enrefert. From another drainage basin. organizations acre-feet. From brainage Basin number D. B. No. From sturning systems in companizations acre-feet. From sturning systems within basin. organizations acre-feet. Surface water. organizations Ground water. organizations organizations acre-feet. From other organizations in the bosin. organizations acre-feet. From other organizations in the bosin. organizations acre-feet. Conveyance loss in basin. organizations acre-feet. Conveyance loss in basin. organizations organizations organizations. Conveyance loss in basin. organizations. To drainage basin number D. B. No. Delivered for use in the basin. organizations acre-feet. To farm irrigation water users organizations. Ser-feet. To residential water users organizations. For other use. organizations. For other use. organizations. For other use. organizations organizations. For other use. organizations organizations.	40,241 	566 154,744	1,121,536 1,4,364 1,117,172 1,117,172 1,117,172 1,117,172 1,100,740 1,100,74	135 60,070 60,070 135 59,969 6,967 	136 391,564 	23 974,272 24,283 	5 24,683 1 22,055 5 2,628 6 5 2,628 6 5 24,683 4 1 1 22,055 5 2,628 6 5 2,628 6 5 2,628 6 5 2,628 6 5 2,628 6 5 2,628 6 5 2,628 6 5 2,628 6 6 7 8 1 1 2 2,058 6 1 2,058 7 2 2,058 7 2 2,058 7 2,058 7 2 2,058 7 2 2,058 7 2 2,058 7 2 2,058 7 2 2,058 7 2 2,058 7 2 2,058 7 2 2,058 7 2 2 2,058 7 2 2,058 7 2 2,058 7 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	19 62,158	100 196,038	789,77, 789,77, 771,35, 18,41, 727,95, 79,33, 387,03, 261,55, 228,85, 4,00, 28,73,
Total entering conveyance systems in basin. organizations enrefer another drainage basin. organizations organizations acre-feet. From Drainage Basin number. D. B. No. From sturnt source within basin. organizations acre-feet. Surface water. organizations acre-feet. Ground water. organizations organizations acre-feet. From other organizations in the basin. organizations organizations organizations. Coverage of the organizations in the basin. organizations organizations organizations. Conveyance loss in basin. organizations organizations organizations. Conveyance loss in basin. organizations organizations. Conveyed to snother drainage basin. organizations acre-feet. To drainage basin number. D. B. No. Delivered for use in the basin. organizations. To farm irrigation water users organizations. To residential water users. organizations. To residential water users. organizations. For other use. organizations organizations. Acre-feet. Delivered to ther imposion organizations organizations organizations. Acre-feet.	40,241 	56 154,744 	1,121,536 1,4,364 1,117,172 1,117,172 1,117,172 1,117,172 1,100,720 1,100,72	135 60,070 60,070 135 59,962 101 6,967 	136 391,564 136 392,964 1 905 136 391,564 136 49,374 136 342,509 342,509 5981	23 974,272 24,283 	5 24,683 1 22,055 2,628 3,628 5 24,683 354 4 21,055 2,274 5 2,274	19 62,158	100 196,038	789,77, 789,77, 771,35, 18,41, 727,95, 79,33, 387,03, 261,55, 228,85, 4,00, 28,73,
Total entering conveyance systems in basin. organizations enverter. From another drainage basin. organizations enverter. From brainage Basin number	40,241 	154,744	1,121,536 1,4,564 1,19 1,117,172 1,117,172 1,110,740 1,100,740 308,444 1,15,644 1,19 766,360 7 9,689 883 883 20,796	135 60,070 135 60,070 135 59,969 2 101 135 60,070 112 6,967 135 53,103 33 33 	136 391,564	23 974,272 24,283 948,389 717,768 230,821 3185,069 24 974,272 974,272 101,201 101,201 127,436 1,769 1,769 1,769	24,683 1 22,055 5 2,628 5 2,628 5 24,683 4 4 1 1 22,055 5 2,274	19 62,158	10 196,038	789,77. 789,77. 771,3: 18,41 727,9: 727,9: 261,56 228,85 4,00 28,73 61,81
Total entering conveyance systems in basin. organizations acrefect acrefect another drainage basin. organizations. acrefect acrefect prom brainage Basin number. D. B. No. From sturial sources within basin. organizations acrefect. Surface water. organizations acrefect acrefect acrefect acrefect acrefect acrefect acrefect. Organizations acrefect	40,241 	566 154,744	1,121,536 1,4,364 1,117,172 1,117,172 1,117,172 1,117,172 1,100,740 1,100,74	135 60,070 60,070 135 59,969 6,967 	136 391,564 	23 974,272 24,283 	5 24,683 1 22,055 5 2,628 6 5 2,628 6 5 24,683 4 1 1 22,055 5 2,628 6 5 2,628 6 5 2,628 6 5 2,628 6 5 2,628 6 5 2,628 6 5 2,628 6 5 2,628 6 6 7 8 1 1 2 2,058 6 1 2,058 7 2 2,058 7 2 2,058 7 2,058 7 2 2,058 7 2 2,058 7 2 2,058 7 2 2,058 7 2 2,058 7 2 2,058 7 2 2,058 7 2 2,058 7 2 2 2,058 7 2 2,058 7 2 2,058 7 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	19 62,158	100 196,038	789,77 789,77 771,35 18,41

Water was transferred to the besin and released to natural stream channels in excess of the quantity of surface water withdrawn by irrigation organizations. The net effect was to increase the available surface water supply in the basin or State.

SOUTH DAKOTA

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IRRIGATION OF AGRICULTURAL LANDS

State Table 1.-NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950

					Mis	souri River (VI-	-C)		
							Cheyenr	e River	
	Item (For definitions and explanations, see text)	The State	Direct	Niobrara River	White River	Total	Cheyenne River direct	Belle Fourche River	Rapid Creek
			(1a)	(3)	(4)		(5a)	(5b)	(5c)
1 2	Total acres irrigated in Census year1959	115,629 84,356	28,000 2,336		3,000 (D)	84,000 (D)	18,000 (D)	59,000 60,056	7,000 (D)
3	Irrigation organizationsorganizations 1959	25 . 24	:::		2	23 23	2 2	12	
5	Service area, 1959: Farm area reported served by organizations	89,454		•••	(D)	(D)	(D)	66,944	(D)
6	Farm area reported irrigated by organizationsacres 1959	83,984			320	(D)	(D)	64,112	(D)
7	Water users served, totelwater users 1959	759			(D)	(D)	(D)	528	(D)
8	Farm irrigation water userswater users 1959	71.5			(D)	(D)	(D)	505	(D)
9	Residential water userswater users 1959	44			(D)	(D)	(5)	23	(D)
10	Other water userswater users 1959								
	LAND IRRIGATED BY SOURCE OF WATER, 1959								
11	Ground water sourcesacres	18,959	17,000	•••		2,000		2,000	
12	Surface water sourcesacres	96,670	11,000		3,000	82,000	18,000	57,000	7,000
10	WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959								
13 14	Total entering conveyance systems in basin	24 169,283			(D)	22 (D)	(D)	12 103,497	(D)
15 16	From another drainage basinorganizations acre-feet	3,200		:::		(D)	:::	3,200	
17	From drainage basin numberD. B. No							I-H-5	
18 19	From natural sources within basinorganizations acre-feet	23 166,083	:::	•••	(D)	21 (D)	2 (D)	11 100,297	(D)
20 21	Surface waterorganizations acre-feet	23 166,083	:::		(D)	21 (D)	(D)	11 100,297	(D)
22 23	Ground waterorganizations							:::	
24 25	From other organizations in the basinorganizations receiving			•••			:::		
26 27	Total leaving conveyance systemsorganizations acre-feet	24 169,283			2 (D)	22 (D)	2 (D)	12 103,497	(D)
28 29	Conveyance loss in basinorganizations acre-feet	20 69,485			(D)	18 (D)	(D)	52,426	(D)
30 31	Conveyed to another drainage basinorganizations acre-feet								
32	To drainage basin number								•••
33 34	Delivered for use in the basinorganizations acre-feet	24 99,798			2 (D)	22 (D)	2 (D)	12 51,071	(D)
35 36	To farm irrigation water usersorganizations acre-feet	24 99,088			(D)	22 (D)	2 (D)	12 50,499	(D)
37 38	To residential water usersorganizations acre-feet	710			(D)	3 (D)	:::	2 572	(D)
39 40	For other useorganizations acre-feet	:				:::	:::		
41	Delivered to other impation organizations delivering.								
42 43	Average delivery of irrigation water per scre	•		•••				•••	
	irrigated as reported by organizationsacre-feet	1.2		•••	(D)	(D)	(D)	0.8	(D)
44	NEW CAPITAL INVESTMENT, 1950-1959 Expenditures for additional new works and equipment for irrigation and drainage, Jan. 1, 1950-Dec. 31, 1959organizations	16				,16	. 2	8	, e
45	dollars	3,934,876		•••		(D)	(D)	102,834	(D)

D Date not shown to avoid disclosure of information for individual organizations.

State Table 2.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950

(For definitions and explanations, see text)	South Dakota, total	Item (For definitions and explanations, see text)	South Dekota, total
Irrigetion organizations, total numberorganizations 1959	25	TYPE OF SERVICE, 1959 All water directly from surface and	
Area irrigated as reported by organizations	24 83,984	ground water sourcesorganizations Total water conveyedacre-feet	169,2
Farm water users served directlywater users 1959	67,539 715	Water deliveredscre-feet To farm and residential	99,7
Total water conveyedacre-feet 1959	169,283	users onlyorganizations	99,7
TYPE OF ORGANIZATION		To farm and residential users and other	
Mutuel: Unincorporatedorganizations 1959	9	irrigation organizationsorganizations Water to farm and residential	
1949 Farm area irrigated directlyacres 1959	13 3,915	usersacre-feet Water to other irrigation	
Farm water users served directlywater users 1959	43	organizations	
Total water conveyedacre-feet 1959	5,665	onlyorganizations acre-feet	
Incorporatedorganizations 1959	11 8	Part of water from other	
Farm area irrigated directlyscres 1959 Farm water users served	13,037	organizations	
directlywater nsers 1959 Total water conveyedacre-feet 1959	190 27,418	From surface and ground water sourcesacre-feet	
Districtorganizations 1959	1	From other irrigation organizationsscre-feet	
1949	1 (D)	Water deliveredacre-feet To farm and residential	
Farm area irrigated directlyacres 1959 Farm water users served		users onlyorganizations	
directlywater users 1959 Total water conveyedacre-feet 1959	(D)	scre-feet To ferm and residential users and other	
U.S. Bureau of Reciamation; projects and stor-		irrigation organizationsorganizations Water to farm and residential	
age systems operated by bureauorganizations 1959	2	usersacre-feet Water to other irrigation	•
Farm area irrigated directlyacres 1959 Farm water users served	11,382	organizationsacre-feet To other irrigation organizations onlyorganizations	į.
directlywater users 1959 Total water conveyedacre-feet 1959	106 48,955	acre-feet	:
		All of water from other organizationsorganizations	
U. S. Bureau of Reclamation, operated by water users	1	Total water conveyedacre-feet	:
Farm area irrigated directlyacres 1959	(D)	Water deliveredacre-feet To farm and residential	
Farm water users served directlywater users 1959	(D)	users onlyorganizations	:
Total water conveyedacre-feet 1959	(D)	To farm and residential user and other	
U. S. Bureau of Indian Affairsorganizations 1959	2	irrigation organizationsorganizations Water to farm residential	
Farm area irrigated directlyacres 1959 Farm water users served	(D)	usersacre-feet Water to other irrigation	
directlywater users 1959 Total water conveyedacre-feet 1959	(D)	organizationsacre-feet To other irrigation organizations	
Commercialorganizations 1959		only	:
1949 Farm area irrigated directlyacres 1959		No water conveyedorganizations	
Farm water users served directly water users 1959		WATER FROM OTHER SOURCES	
Total water conveyedacre-feet 1959	***	Organizations reporting NO water from other sources used on land served	
Stateorganizations 1959		by the organizationorganizations acres served	89,6
1949 Farm area irrigated directlyacres 1959		acres irrigated	84,1
Farm water users served directlywater users 1959		Water delivered to farmsacre-feet acre-feet per acre	99,6
Total water conveyedscre-feet 1959		Organizations reporting water from other	
Cityorganizations 1959		sources used on land served by the organizationorganizations	
Farm area irrigated directlyscres 1959		acres served	
Farm water users served directlywater users 1959		Water delivered to farmsscre-feet	
Total water conveyedacre-feet 1959		scre-feet per scre	

D Data not shown to avoid disclosure of information for individual organizations.

State Table 2.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Continued

Item (For definitions and explanations, see text)	South Dakota, total	Item (For definitions and explanations, see text)	South Dakota, total
WATER DELIVERED PER ACRE		SIZE OF ORGANIZATION—Continued	
Organizations reporting NO water from		Size of organization (acre-feet of water	
other sources used on same land:		delivered directly to farms);	
0.1 to 0.9 acre-feet per acreorganizations	6	Noneorganizations	1
acres irrigated	58,640		
1.0 to 1.9 acre-feet per acreorganizations acres irrigated	12 10,345	1 to 299 acre-feetorganizations	7
2.0 to 2.9 acre-feet per acreorganizations	10,343	acre-feet	1,059
acres irrigated	800	300 to 999 acre-feetorganizations	6
3.0 to 3.9 acre-feet per acreorganizations	5	acre-reet	3,737
acres irrigated 4.0 to 4.9 acre-feet per acreorganizations	14,359	1,000 to 2,999 acre-feetorganizations	
acres irrigated		acre-feet	10.233
5.0 to 5.9 acre-feet per acreorganizations		3,000 to 9,999 acre-feetorganizations	3
acres irrigated		acre-feet	12,036
6.0 to 6.9 acre-feet per acreorganizations acres irrigated	:::		
7.0 to 7.9 acre-feet per acreorganizations		10,000 to 29,999 acre-feetorganizations	
acres irrigated		acre-feet 30,000 to 99,999 acre-feetorganizations	
8.0 to 9.9 acre-feet per acreorganizations		acre-feet	72,599
acres irrigated		100,000 or more acre-feetorganizations	
10.0 or more acre-feet per acreorganizations	1	acre-feet	
acres irrigated	1		
SIZE OF ORGANIZATION		Size of organization (acre-feet of water conveyed):	
		Noneorganizations	1
Size of organization (number of farm irrigation water users served directly):		1 to 299 acre-feetorgenizations	5
Noneorganizations	1	acre-feet 300 to 999 acre-feetorganizations	620 5
1 to 3organizations		scre-feet	2,755
water users	11		2,122
4 to 9organizations	9 57	1,000 to 2,999 acre-feetorganizations	7
water users 10 to 29orgenizations	57/	acre-feet	11,458
water users	1.06	3,000 to 9,999 acre-feetorganizations	5
30 to 99organizations	2	acre-feet	20,040
water users 100 to 299organizations	64	10,000 to 29,999 acre-feetorgenizations	
water users	106	acre-feet	
300 to 999organizations	1	30,000 to 99,999 acre-feetorganizations	
weter users	372	acre-feet	138,890
1,000 or moreorganizations water users		100,000 or more acre-feetorganizations	•••

State Table 3.-LAND IRRIGATED BY SOURCE OF WATER, BY DRAINAGE BASINS: CENSUS OF 1959

Item (For definitions and explanations, see text)	South Dakota, total	Item (For definitions and explanations, see text)	South Dakota, total
Total acres irrigatedfarms reporting	1,002	LAND IRRIGATED, BY SOURCE OF WATER TO INDIVIDUAL FARMS, 1959—Continued	
acres	115,629	Surface sources on farmfarms reporting	300
Acres irrigated by sprinklersfarms reporting	239	scres	24,424
acres	20,906	Surface sources on farm onlyfarms reporting	252
Sprinklers onlyfarms reporting	194	acres	21,947
Springlete only	1,500	Irrigation organization sources	571
acres	18,032	Irrigation organization sources	72,246
LAND IRRIGATED, BY SOURCE OF WATER TO INDIVIDUAL		onlyfarms reporting	523
FARMS, 1959		scres	65,823
Ground water sources on farmfarms reporting	191	Both farm ground water sources	
acres	18,959	and surface sources	11
Ground water sources on farm onlyfarms reporting	168	Both irrigation organization and farm ground	1,582
Ground water sources on larm onlylarms reporting		water or farm surface sourcesfarms reporting	48
acres	17,056	acres	9,221

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950

			So	uth Dakota, total			
Item		Mut	ual		U. S. Bureau	of Reclamation	0
(For definitions and explanations, see text)	All types	Unincorporated	Incorporated	District	Projects and storage systems operated by bureau	Operated by water users	Commercial, Indian, State, city, and other
Irrigation organizationsorganizations 1959 1949 Service area, 1959:	25 24	9 13	11 8	1	2	1 1	2 1
Area served, as reported by organizations	89,454	5,036	14,100	(D)	12,135	(D)	(D)
by organizationsacres	83,984	3,915	13,037	(D)	11,382	(D)	(D)
Water users serwed, 1959, total mater users. Farms irrigation water users mater users. Residential water users mater users. Other water users. mater users.	759 715 44 	43 43 	233 190 43	(D) (D) 	106 106 	(D) (D)	(D) (D)
TYPE OF SERVICE, 1959							
All water directly from surface and ground water sources organizations. Total water conveyed	24 169,283 99,798	5,665 5,034	11 27,418 21,502	(D) (D)	48,955 35,653	(D) (D)	(D) (D)
acre-feet To farm and residential users and other	99,798	5,034	21,502	(D)	35,653	(D)	(D)
irrigation organizationsorganizations Water to farm and residential							
users							
To other irrigation organizations onlyorganizations							
Part of water from other	• • • • • • • • • • • • • • • • • • • •	•••	•••		•••		•••
organizations		:::	:::	:::	:::	:::	:::
sources		:::			:::	:::	:::
Water deliveredacre-feet To farm and residential users onlyorganizations							
acre-feet To farm and residential users and other	•••	•••			•••		
irrigation organizationsorganizations Water to farm and residential usersacre-feet							•••
Water to other irrigation organizationsacre-feet To other irrigation organizations							
onlyorganizationsorganizations							
All of water from other organizationsorganizations	•••						•••
Total water conveyed	:::		:::		:::		:::
onlyorganizations acre-feet		:::					:::
To farm and residential users and other irrigation organizationsorganizations							
Water to farm and residential usersacre-feet							
Water to other irrigation organizationsacre-feet To other irrigation organizations						•••	
onlyorganizations					:::		
No water conveyedorganizations	i	:::	:::	:::	1		
WATER FROM OTHER SOURCES Organizations reporting no water from other sources used on the land served by the organization	24	9	11	1	,	1	2
acrea aerved acrea irrigated water delivered to farms (acre-feet) acre-feet per acre	89,614 84,144 99,664 1.2	5,196 4,075 5,610	14,100 13,037 20,870	(D) (D) (D)	12,135 11,382 35,653 2.9	(D) (D) (D) 0.6	(D) (D) (D) 0.6
Organizations reporting water from other sources used on land served by the organization							
acres served acres irrigated water delivered to farms (acre-feet) acre-feet per acre		 	: :	:::			:::
NEW CARPITAL INVESTMENT, 1990-1999 Expenditures for additional new worken and equipment for irrigation and dratings, January 1, 1990-December 31, 1999 organizations. By U. S. B. R dollars. Sy water users organizations dollars.	16 3,815,932 118,944	7 16,844	7 27,100	1 (D)	3,8 1 5,932	1 (D)	

			Sc	outh Dakota, total			
Item		Mut		-	U. S. Bureau	of Reclamation	
(For definitions and explanations, see text)	All types	Unincorporated	Incorporated	District	Projects and storage systems operated by bureau	Operated by water users	Commercial, Indian, State, city, and other
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959							
Total entering conveyance systemsorganizations acre-feet	169,283	9 5,665	27,418	(D)	1 48,955	(D)	2 (D)
From another drainage basinorganizations	1 3,200	3,200					
From drainage basin		3,200	:::	:::	:::		
From sources within basinorganizations	23 166,083	8 2,465	11 27,418	1 (D)	1 48,955	1 (D)	2 (D)
Surface waterorganizationsacre-feet	23 166,083	2,465	11 27,418	(D)	1 48,955	(D)	(D)
Ground waterorganizations			· · · ·		· :::		
From other organizations in the basin organizations receiving							
Total leaving conveyance systemsorganizations acre-feet	24 169,283	9 5,665	11 27,418	1 (D)	1 48,955	1 (D)	2 (D)
Conveyance loss in basinorganizations acre-feet	20 69,485	6 631	10 5,916	1 (D)	13,302	(D)	2 (D)
Conveyed to another drainage basinorganizations acre-feet					:::		
To drainage basin number		:::	:::	:::	:::		:::
Delivered for use in the basinorganizations acre-feet	24 99,798	9 5,034	11 21,502	1 (D)	1 35,653	1 (D)	2 (D)
To farm irrigation water usersorganizations acre-feet	24 99,088	9 5,034.	11 20,870	1 (D)	1 35,653	(D)	(D)
To domestic water usersorganizations	710		3 632	i::	· · · ·		1 78
For other useorganizations acre-feet							:::
Delivered to other impation organizations					:::		:::
SIZE OF ORGANIZATION, 1959							
Size of organization (number of farm frrigation water users):							
Noneorganizations	1 5	***		(D) (D)		(D) (D)	(D)
1 to 3 water usersorganizations 4 to 9 water usersorganizations 10 to 29 water usersorganizations	9	6	3 6	(D)	:::	(D) (D)	(D) (D) (D)
30 to 99 water usersorganizations 100 to 299 water usersorganizations	2		2	(D) (D)	···	(D) (D)	(D) (D)
300 to 999 water usersorganizations 1,000 or more water usersorganizations	1			(D)		(D) (D)	(D)
Size of organization (acre-feet of water delivered directly to farms):				(D)		7-1	(D)
Noneorganizations 1 to 299 acre-feetorganizations	7		:::	(D)		(D) (D)	(D)
300 to 999 acre-feetorganizations 1,000 to 2,999 acre-feetorganizations	6	2	3 6	(D)	:::	(D)	(D) (D)
3,000 to 9,999 acre-feetorganizations 10,000 to 29,999 acre-feetorganizations			2	(D)	:::	(D) (D)	(D)
30,000 to 99,999 acre-feetorganizations 100,000 or more acre-feetorganizations				(D)		(D)	(1)
Size of organization (acre-feet of water conveyed):	1			(p)	1	(D)	(D)
None. organizations. 1 to 299 acre-feet. organizations. 300 to 999 acre-feet. organizations.	5	5 2		(D)		(D)	(D) (D)
1,000 to 2,999 acra-feetorganizations	7	1	6	(D)		(D)	(D) (D)
3,000 to 9,999 acre-feetorganizations 10,000 to 29,999 acre-feetorganizations	5		4	(D)		(D)	(D)
30,000 to 99,999 acre-feetorganizations 100,000 or more acre-feetorganizations	2	:::		(D)		(D)	(U)
		L	L				

D Data not shown to avoid disclosure of information for individual organizations.

State Table 5.-NUMBER OF IRRIGATION ORGANIZATIONS, TYPE OF SERVICE, NEW CAPITAL INVESTMENT, AND WATER CONVEYED, BY SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUS OF 1959

	South Dak	ota, total		South Dak	ota, total
Item (For definitions and explanations, see text)		anization, by er conveyed	Item (For definitions and explanations, see text)	Size of orga total wate	nization, by r conveyed
	0-999 acre-feet	1,000 or more acre-feet		0-999 acre-feet	1,000 or more acre-feet
Number of organizationsorganizations	11	14	WATER FROM OTHER SOURCES		
TYPE OF SERVICE			Organizations reporting No water from other		
All water directly from surface and			sources used on land served by the organizations	10	14
ground sourcesorganizations	10	14	acres served	4,736	84,878
Total water conveyedacre-feet Water deliveredacre-feet	3,375 2,417	165,908 97,381	acres irrigated	2,935	81,209
		.,,,,,,	Organizations reporting water from other sources used on some of the same land served		
To farm and residential users onlyorganizations	10	14	by the organizationorganizations		
acre-feet	2,417	97,381	acres served scres irrigated		• • • • • • • • • • • • • • • • • • • •
To farm and residential users and other	1	1			
irrigation organizationsorganizations			NEW CAPITAL INVESTMENT, 1950-1959		
Water to farm and residential	1		Expenditures for additional new works and		
usersacre-feet Water to other irrigation			equipment for irrigation and drainage, January 1, 1950-December 31, 1959organizations	7	9
organizationsacre-feet			dollars	7,644	3,927,232
To other irrigation organizations	ŀ		WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959		
onlyorganizations			Total entering conveyance systems		
acre-feet		•••	in basinorganizations	10	14
Part of water from other organizationsorganizations			acre-feet From another drainage basinorganizations	3,375	165,908
Total water conveyedacre-feet From surface and ground water			acre-feet		3,200
sourcesacre-feet	1		From Drainage Basin number B. No		-,
From other irrigation			From natural sources within basinorganizations	10	13
organizationsacre-feet			acre-feet	3,375	162,708
Water deliveredacre-feet			Surface waterorganizations	10 3,375	13 162,708
To farm and residential users onlyorganizations	l		Ground waterorganizations		· · · ·
scre-feet			acre-feet		•••
To farm and residential users and other			From other organizations in the basinorganizations receiving		
irrigation organizationsorganizations			acre-feet		
Water to farm and residential usersacre-feet		l	Total leaving conveyance systemsorganizations	10 3,375	14 165,908
Water to other irrigation		""	Conveyance loss in basinorganizations	7,575	105,900
organizationsacre-feet			acre-feet	958	68,527
To other irrigation organizations			basinorganizations		
onlyorganizations			acre-feet		
acre-leet			To drainage basin number D. B. No Delivered for use in the basinorganizations	10	14
All of water from other organizationsorganizations			acre-feet	2,417	97,381
Total water conveyedacre-feet Water deliveredacre-feet	:::	1 :::	To farm irrigation water usersorganizations	2,339	14 96,749
To farm and residential users			To residential water usersorganizations	1	3
onlyorganizations			acre-feet For other useorganizations	78	632
acre-feet			scre-feet	:::1	
To farm end residential users and other irrigation organizationsorganizations			Delivered to other irrigation organizations organizations delivering acresses	:::	
Water to farm and residential		1			
usersacre-feet Water to other irrigation			AVERAGE DELIVERY OF IRRIGATION WATER PER ACRE, 1959	i	
organizationsacre-feet			Per acre irrigated, as reported by irrigation organization:		
To other irrigation organizations		1	All organizationsacre-feet	1.4	1.2
onlyorganizations			Organizations reporting NO water from		
acre-feet			other sources used on the same land and reportingorganizations	31	14
No water conveyedorganizations	1	1	acre-feet	0.8	1.2

TEXAS

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IRRIGATION OF AGRICULTURAL LANDS

State Table 1.-NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS,

_				Gulf of Me	xico excludin	g Mississippi	River and Ri	o Grande and 1	Mermentau Riv	ers (V-A)
	Item (For definitions and explanations, see text)	The State	Gulf of Mexico excluding Mississippi River, total	Total	Gulf of Mexico direct	Nueces River	Guadalupe River	Lavaca River	Colorado	Colorado River direct below
			(v)		(1)	(2)	(3)	(4)		Austin (5a)
1	Total acres irrigated in Census year1959	5,655,638	4,091,000	3,247,000	213,000	113,000	32,000	60,000	473,000	66,000
2	1949	3,150,527	2,703,283	1,828,193	281,113	90,638	11,464	60,007	116,488	71,986
3	Irrigation organizationsorganizations 1959	122	102	61 67	15	9	23	6	11	5
5	Service area, 1959: Farm area reported served by organizationsacres 1959	1,399,753	1,386,282	559,351	414,531	25,950	7,258	25,541	35,811	26,660
6	Farm area reported irrigated by organizationsacres 1959	943,818	930,347	278,940	190,249	19,860	4,918	21,295	17,631	10,258
7	Water users served, totalwater users 1959	33,827	30,712	3,800	943	1,375	339	105	434	35
8	Farm irrigation water userswater users 1959	24,588	24,339	2,449	928	738	339	105	228	35
9	Residential water userswater users 1959	9,124	9,124	1,282	3	597			200	
10	Other water userswater users 1959	115	113	69	12	40	• • • • • • • • • • • • • • • • • • • •		6	
11	LAND IRRICATED BY SOURCE OF WATER, 1959 Ground water sourcesacres	4,634,135	3,093,000	2,893,000	50,000	96,000	25,000	56,000	414,000	28,000
12	Surface water sourcesacres	1,021,503	998,000	354,000	163,000	17,000	7,000	4,000	59,000	38,000
	WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959	, ,		,	· 1	,	.,,	,,,,,,	,	
13 14	Total entering conveyance systems in basin	103 2,671,746	102 2,646,384	51 1,244,025	17 802,457	10,098	13 11,387	86,982	399,109	4 355,715
15 16	From another drainage basinorganizations acre-feet			1 1,045	664,236	2,363		80,689		
17	From drainage basin numberD. B. No			V-B-la	(1)	V-A-3		V-A-5a		
18 19	From natural sources within basinorganizations acre-feet	92 2,671,746	91 2,646,384	49 1,242,980	9 138,221	7,735	13 11,387	3 6,293	399,109	355,715
20 21	Surface waterorganizations acre-feet	80 2,638,564	2,613,202	39 1,232,974	9 138,221	7,735	5 6,814	1 860	399,109	355,715
22 23	Ground waterorganizations	19 33,182	19 33,182	11 10,006			4,573	5,433		
24 25	From other organizations in the basinorganizations receiving	19 100,899	19 100,899	12,000	12,000					:::
26 27	Total leaving conveyance systemsorganizations acre-feet	103 2,671,746	103 2,646,384	51 1,244,025	17 802,457	10,098	13 11,387	86,982	11 399,109	355,7 1 5
28 29	Conveyance loss in basinorganizations acre-feet	80 470,139	81 470,139	37 116,296	17 91,735	3 891	7 574	2,129	8,476	7,421
30 31	Conveyed to another drainage basinorganizations scre-feet		:::		3,200	:::	2,363	:::	281,748	3 281,748
32	To drainage basin number				V-A-9b		V-A-3			(2)
33 34	Delivered for use in the basinorganizations acre-feet	2,201,607	2,176,245	1,127,729	707,522	9,207	8,450	84,853	108,885	66,546
35 36	To farm irrigation water usersorganizations acre-feet	102 1,933,755	1,909,633	941,082	17 650,605	8,218	8,450	84,853	10 79,711	3 66,546
37 38	To residential water usersorganizations acre-feet	16 42,268	17 42,268	26,618	25	875			600	:::
39 40	For other useorganizations acre-feet	24 225,584	23 224,344	10 160,029	56,892	1 114			28,574	:::
41 42	Delivered to other irrigation organizations	9	100,899	1 12,000	12,000					:::
43	Average delivery of irrigation water per acre irrigated as reported by organizationsacre-feet	2.0	2,0	3.4	3.4	0.4	1.7	4.0	4.5	6.5
44	NEW CAPITAL INVESTMENT, 1950-1959 Expenditures for additional new works and equipment for irrigation and drainage,									
45	Jan. 1, 1950-Dec. 31, 1959organizations dollars	16,733,025	16,706,025	4,328,527	7 1,468,198	1,972,724	15,475	25,000	470,130	370,000

D Data not shown to avoid disclosure of information for individual organizations.

1,045 acre-feet from D. B. No. V-B-la, 82,040 acre-feet from D. B. No. V-A-8, 201,059 acre-feet from D. B. No. V-A-6, 105,105 acre-feet from D. B. No. V-A-6, 202,059 acre-feet to D. B. No. V-B-6.

280,689 acre-feet to D. B. No. V-A-6, 202,059 acre-feet to D. B. No. V-B-6.

No. V-B-1a, 82,040 acre-feet to D. B. No. V-A-6, 202,059 acre-feet to D. B. No. V-B-6.

BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950

				tman (V-B)	low Fort Cui	Rio Grande be	1			d	Mississippi A) — Continue	co excluding o Grande (V-	Gulf of Mexi River and Ri	
Rio Grande			Pecos River			rect	o Grande din	Ri					iver—Con.	olorado R
direct above Fort Quitmen (V-C)	Toyah Greek	Commanche Creek	Pecos River direct Acme, New Mexico to Grand- Falls, Texas	Pecos River direct below vicinity Grand- Falls	Total	Rio Grande City to Del Rio and Del Rio to Fort Quitman	Below Rio Grande City	Total	Total	Sabine River	San Jacinto and Trinity Rivers	Brazos River	Concho River	Colorado River direct above lustin
	(2f)	(2e)	(2a)	(2a)		(1b, c)	(la)	654.000	Mari non	(9)		(6)	(5c)	(5b)
70,00 86,83	43,000 18,347	11,000 9,232	55,000 46,259	11,000 21,821	120,000 95,659	74,000 71,140	580,000 621,459	654,000 692,599	774,000 788,258	43,000 34,264	87,000 80,347	2,226,000 1,153,872	22,000 12,249	385,000 32,253
	3 2		5 6	3	10	5 8	35 33	40 41	50 52	6	3 5	5 4	4	3 2
1)	11,000		13,001	39,579	63,580	35,353	633,554	668,907	732,487	8,520	34,148	7,592	3,590	5,561
(1	8,350		4,833	2,592	15,775	23,999	545,610	569,609	585,384	8,520	8,875	7,592	3,590	3,783
(1	68		63	49	180	378	22,394	22,772	22,952	60	524	20	48	351
1)	68		43	49	160	377	19,477	19,854	20,014	57	34	20	46	147
1)		***	20		20		2,875	2,875	2,895		482			200
11,00	38,000	10,000	50,000	11,000	109,000	36,000 38,000	44,000 536,000	80,000 574,000	189,000	3,000 40,000	63,000	2,186,000	16,000 6,000	370,000 15,000
59,00	5,000	1,000	3,000		11,000	30,000	330,000	J/4,000	505,000	40,000	24,000	40,000	0,000	17,000
1)	27,526		5 60,034	4 10,946	10 83,407	5 67,247	35 920,837	40 988,084	50 1,071,491	221,768	3 208,296	253,371	34,600 i	8,794
	4,526			1 10,573	:					3,200		:::	:::	:::
	V-B-2b			V-B-2b										
(1	23,000		60,034	1 373	83,407	67,247	32 920,837	37 988,084	40 1,071,491	218,568	208,296	253,371	34,600	3 8,794
(1	23,000		60,034	373	3 83,407	52,147	31 917,761	35 969,908	38 1,053,315	3 218,568	208,296	253,371	34,600	3 8,794
(1			***			15,100	3,076	18,176	18,176					:::
	1 4,526	:::)	20,728	2 10,573	35,827		11 53,072	11 53,072	18 88,899	:::				
(1	27,526	:::	60,034	10,946	10 83,407	67,247	35 920,837	988,084	50 1,071,491	221,76 8	208,296	253,371	34,600	8,794
(1	8,208		33,029	4,841	9 46,078	16,015	28 185,482	201,497	42 247,575	7,382	1,461	3,648	650 650	405
			2 15,119		:::		1 1,045	1,045	1 1,045	160,106	82,040	3 219,986		:::
			(3)				V-B-1a				V-A-6b			
(1	19,318		11,906	6,105	9 37,329	5 51,232	35 734,310	40 785,542	49 822,871	54,280	124 , 795	29,737	33,950	8,389
(1	19,318		11,806	6,105	37 , 229	41,232	35 679,853	40 721,085	758,314	40,280	39 , 228	29,737	9,270	3,895
(1			100		100		11 6,914	11 6,914	7,014		25,118			600
(1	:::	:::,		:		10,000	11 47,543	12 57,543	12 57,543	14,000	60,449		24,680	3,894
::	1 4,526	:::	20,728	10,573	35,827	:::	53,072	53,072	88,899	:::	:::			:::
(1	2.3		2.4	2.4	2,4	1.7	1.2	1.3	1.3	4.7	4.4	3.9	2.6	1.0
	40,000		5,000	5,000	3 50,000	2 16,200	24 12,311,298	26 12,327,498	29 12,377,498	330,000	24,000	23,000	72,000	28,130

IRRIGATION OF AGRICULTURAL LANDS

State Table 1.-NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950-Continued

			MISSISSIPPI	KIVEI EXCIDENT	AI Adibas id	ver and Red Ri		elow bake lexi	- (11-H)	Arkansas
							Prai	rie Dog Town I	Fork	River, Canadian
	Item (For definitions and explanations, see text)	Mississippi River, total	Total	Red River direct above Lake Texhoma	Pease River	North and Salt Forks	Total	Prairie Dog Town Fork direct	Tierra Blanca Creek	River direct below Conchas Reservoir
		_(VI)		(2a)	(2b)	(2e)		(2d)	(2e)	(2a)
1 2	Total acres irrigated in Census year	1,565,000 447,244	1,257,000 435,569	33,000 13,212	167,000 88,083	42,000 272	1,015,000	476,000 163,694	539,000 170,308	308,00 11,67
3	Irrigation organizationsorganizations 1959	1	1	1 1		:::		:::		::
5	Service area, 1959: Farm area reported served by organizationsacres 1959	(D)	(D)	(D)						
6	Farm area reported irrigated by organizationsacres 1959	(D)	(D)	(D)						
7	Water users served, totalwater users 1959	(D)	(D)	(D)						
8	Farm irrigation water userswater users 1959	(D)	(D)	(D)						
9	Realdential water userswater users 1959									
10	Other water userswater users 1959	(D)	(D)	(D)						
	LAND IRRIGATED BY SOURCE OF WATER, 1959									
11	Ground water sourcesacres	1,541,000	1,236,000	19,000	165,000	41,000	1,011,000	473,000	538,000	305,00
12	Surface water sourcesacres	24,000	21,000	14,000	2,000	1,000	4,000	3,000	1,000	3,00
13	WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959 Total entering cooveyance systems in									
14	basinorganizations acre-feet	(D)	(D)	(D)	:::			:::		::
15 16	From another drainage basinorganizations acre-feet	:::		:::	:::	:::	:::	:::	:::	::
17	From drainage basin number									
18 19	From natural sources within basinorganizations acre-feet	(D)	(D)	(D)	:::	:::	:::	:::		::
20 21	Surface waterorganizations acre-feet	(D)	(D)	(D)			:::	:		::
22 23	Ground waterorganizations acre-feet	:::	:::	:::			:::	:::		::
24	From other organisations in the basin									
25	acre-feet									
26 27	Total leaving conveyance systemsorganizations acre-feet	(D)	1 (D)	(D)		:::	:::	:::	•••	::
28 29	Conveyance loss in basinorganizations acre-feet		:::			:::	:::	:::		::
30 31	Conveyed to another drainage basicorganizations acre-feet	:::	:::	:::			:::	:::		::
32	To drainage basin numberD. B. No									
33 34	Delivered for use in the basinorganizations acre-feet	(D)	(D)	(D)		:::1	:::	:::		::
35 36	To farm irrigation water usersorganizations acre-feet	(D)	(D)	1 (D)	:::	:::	:::	:::		::
37 38	To residential water usersorganizations acre-feet			:::	:::	:::	:::	:::		::
39 40	For other useorganizationsacre-feet	(D)	(D)	(D)	:::		:::	:::		::
41 42	Delivered to other irrigation organizations delivering									
42 43	Average delivery of irrigation water per acre irrigated as reported by organizationsacre-feet	(D)	(D)	(D)						
44	NEW CAPITAL INVESTMENT, 1950-1959 Expenditures for additional new works and	(1)	(1)	(4)						
45	equipment for irrigation and drainage, Jan. 1, 1950-Dec. 31, 1959organizations dollars	1 (D)	(D)	(D)	:	:::	:::	:::		

D Data not shown to avoid disclosure of information for individual organizations

State Table 2.-NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950

	[tem (For definitions and explanations, see text)	Texas, total	Gulf of Mexico excluding Mississippi, Rio Crande, and Mermentau Rivers	Ric Grande below Fort Quitman
			(V-A)	(V-B)
	Irrigation organizations, total numberorganizations 1959	103 122	51 67	
,	Area irrigated as reported by organizationsacres 1959	943,818 1,042,714	278,940 362,089	58 58
1	Farm water users served directlywater users 1959	24,588	2,449	2
1	Total water conveyedacre-feet 1959	2,772,645	1,256,025	1,16
	TYPE OF ORGANIZATION			
À	Mutual: Unincorporatedorganizations 1959 1949 Farm area irrigated directlyacres 1959	25 34 17,069	21 28 15,043	
	Farm water users served directlywater users 1959 Total water conveyedacre-feet 1959	201 92,935	169 89,475	
	Incorporatedorganizations 1959	4 11	2 8	
	Farm area irrigated directlyacres 1959 Farm water users served directlywater users 1959	27,601 183	23,803 108	
,	Total water conveyedacre-feet 1959	116,459	98,926	1
L	Districtorganizations 1959 1949 Farm area irrigated directlyacres 1959 Farm water users served	51 45 647,223	8 5 48,452	
	directlywater users 1959 Total water conveyedacre-feet 1959	21,490 1,324,691	1,258 132,277	
ţ	U.S. Bureau of Reclamation; projects and stor- age systems operated by bureauorganizations 1959	1 2	:::	
	Farm area irrigated directlyacres 1959 Farm water users served directlywater users 1959	59,023 1,788	::: }	
ι	Total water conveyedacre-feet 1959 U. S. Bureau of Reclamation; operated	299,762		
	by tater users organisations 1959. 1949 Farm area irrigated directly acres 1959.	3 2 106,650	 NA 	10
	Farm water users served directlywater users 1959 Total water conveyedacre-feet 1959	6,560 207,491	:	20
U	J. S. Bureau of Indian Affairsorganizations 1959 1949 Farm area irrigated directlyacres 1959	:::	:::	
	Farm water users served directly water users 1959 Total water conveyedacre-feet 1959	:::	:::	
С	Commercialorganizations 1959	18	16	
	Farm area irrigated directlyacres 1959 Farm water users served directly water users 1959.	27 (D)	24 (D)	
	directlywater users 1959 Total water conveyedacre-feet 1959	(D) (D)	(D) (D)	
S	Stateorganizations 1959 1949 Farm area irrigated directlyacres 1959	1 (D)	1 (D)	
	Farm water users served directlywater users 1959 Total water conveyedacre-feet 1959	(D)	(D) (D)	
С	ityorganizations 1959 1949 Farm area irrigated directlyacres 1959	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	3 2	
	farm water users served directly	3,768 11 95,111	3,768 11 95,111	

 ${\tt D}$ Data not shown to avoid disclosure of information for individual organizations. NA Not available.

State Table 2.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Continued

	Item (For definitions and explanations, see text)			Rio Grande below Fort Quitman (V-B)
-			(V-A)	
	TYPE OF SERVICE, 1959			
	All water directly from surface and ground water sourcesorganizations	84	49	32
3 4	Total water conveyedacre-feet Water deliveredacre-feet To farm and residential	2,616,143 1,954,653	1,242,980 967,089	1,015,888 744,569
5	users onlyorganizations scre-feet To farm and residential users and other	77 1,506,914	48 826,524	26 43 7, 395
7	irrigation organizationsorganizations Water to farm and residential	6	1	5
8	water to other irrigation	347,176	128,565	218,611
9	organizationsacre-feet To other irrigation organizations	64,736	12,000	52,736
10	onlyorganizations acre-feet	35,827	•••	1 35,827
11	Part of water from other			d
12	organizationsorganizations Total water conveyedacre-feet	65,367	:::	65,367
13	From surface and ground water sourcesacre-feet From other irrigation	55,603		55,603
15	organizations	9,764 52,476		9,764 52,476
16	To farm and residential users onlyorganizations	6		6
17 18	To farm and residential users and other	13,247	•••	13,247
19	irrigation organizationsorganizations Water to farm and residential usersacre-feet.	38,893		28,893
20	Water to other irrigation organizationsacre-feet	336		336
21	To other irrigation organizations onlyorganizations	•••		
22	acre-feet	•••		
23	All of water from other organizationsorganizations Total water conveyedacre-feet	91,135	13,045	10 79,135
25 26	Water deliveredacre-feet To farm and residential	67,773	12,611	57,182
27	users onlyorganizations scre-feet To farm and residential users and other	11 69,793	12,611	10 57,182
28	irrigation organizationsorganizations Water to farm residential	•••		•••
30	water to other irrigation	•••	•••	
31	organizationsacre-feet To other irrigation organizations	***		•••
32	onlyorganizations	***		
33	No water conveyedorganizations	•••		
1	WATER FROM OTHER SOURCES			
34	Organizations reporting NO water from other sources used on land served	92	49	41
35	by the organizationorganizations acres served	1,278,873	527,326	650,152 512,528
36 37	acres irrigated Water delivered to farmsacre-feet acre-feet per acre	861,652 1,777,350 2.1	273,809 881,608 3.2	664,207 1.3
38 39	Organizations reporting water from other sources used on land served by the	2.1		
40	organizationorganizations	10 120,880	2 37,500	8 83,380
41 42	Water delivered to farmsacre-feet	82,166 156,405	8,265 61,592	73,901 94,813
43	acre-feet per acre	1.9	7.5	1.3

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State Table 2.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Continued

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	ltem (For definitions and explanations, see text)	Texes, total	Gulf of Mexico excluding Mississippi, Rio Grande, and Mermentau Rivera (V-A)	Rio Grande below Fort Quitamn (V-B)
	WATER DELIVERED PER ACRE			
1	Organizations reporting f0 water from other sources used on same land: O.1 to 0.9 acre-feet per acreorganizations acres irrigated	12 122,405	6 29,794	76,790
3	1.0 to 1.9 acre-feet per acreorganizations	26	3	22
5	acres irrigated 2.0 to 2.9 acre-feet per acreorganizations	397,651 20	2,242 13	381,938 7
6 7	acres irrigated 3.0 to 3.9 acre-feet per acreorganizations	84,054 16	54,405 14	29,649
1 2 3 4 5 6 7 8 9	acres irrigated 4.0 to 4.9 acre-feet per acreorganizations	208,095	142,072	i
10	acres irrigated 5.0 to 5.9 acre-feet per acreorganizations	13,651	12,823	828
11	acrea irrigated	28,628	28,228	400
13 14	6.0 to 6.9 acre-feet per acreorganizations acrea irrigated	6,468	3,845	2,623
15 16	7.0 to 7.9 acre-feet per acreorganizations acrea irrigated	170	2 170	***
17 18	8.0 to 9.9 acre-feet per acreorganizations acres irrigated	1 300	:::	300
19 20	10.0 or more acre-feet per acreorganizations acres irrigated	1 230	1 230	
	SIZE OF ORGANIZATION			
	Size of organization (number of farm			
21	irrigation water users served directly): Noneorganizations	1		1
22 23	1 to 3organizations water users	15 36	11 26	4
24 25	4 to 9organizations	21 120	12 63	9 57 9
26 27	10 to 29organizations water users	23 403	14 233	9
28	30 to 99organizations water users	17	8	9
30 31	100 to 299organizations	1,037 13	555 5	451 7
32 33	water users 300 to 999organizations	2,332 4	716 1	1,365
34 35	1,000 or moreorganizations	3,110 9	900	2,210 8
35	water usera	16,552		14,764
	Size of organization (acre-feet of water delivered directly to farms):			
36 37	Noneorganizations 1 to 299 acre-feetorganizations	1 9		1 4
38 39	acre-feet 300 to 999 acre-feetorganizations	1,406 12	657	749 3
40 41	1,000 to 2,999 acre-feetorganizations	6,806 26	4,899 13	1,90 7
42 43	acre-feet 3,000 to 9,999 acre-feetorganizations	59,876 19	33,869	28,831 10
44 45	acre-fect 10,000 to 29,999 acre-feetorganizations	105,767	52,753	53,014 8
46 47	acre-feet 30,000 to 99,999 acre-feetorganizations	14 252,979	74,274	133,149
48	acre-feet 100,000 or more acre-feetorganizations	18 972,879	544,724	9 428,155
50	acre-feet	534,042	232,024	113,215
51	Size of organization (acre-feet of water conveyed):			
52	Noneorganizations 1 to 299 acre-feetorganizations			
53 54	acre-feet 300 to 999 acre-feetorganizations	1,248 12	678 8	570 4
54 55 56 57	acre-feet 1,000 to 2,999 acre-feetorganizations	6,836 18	4,569 10	2,267 8
57 58 59	acre-feet 3,000 to 9,999 acre-feetorganizations	115,072 20	98,421	16,651 13
59 60	acre-feet 10,000 to 29,999 acre-feetorganizations	96,221 17	36,435 8	63,965 8
61 62	acre-feet 30,000 to 99,999 acre-feetorganizations	289,433	137,944	126,127
63 64	acre-feet 100,000 or more acre-feetorganizations	1,323,198	594,452	696,595
65	acre-feet	944,637	390,660	254,215
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IRRIGATION OF AGRICULTURAL LANDS

State Table 3.-LAND IRRIGATED BY SOURCE OF WATER, BY DRAINAGE BASINS: CENSUS OF 1959

	Item (For definitions and explanations, see text)	Texas, total	Oulf of Mexico excluding Mississippi, Rio Grande, and Mermentau Rivers (V-A)	Rio Grande below Fort Quitman (V-B)
1	Total acres irrigatedfarms reporting	27,884	16,506	5,982
2	acres	5,655,638	3,247,124	774,137
3	Acres irrigated by sprinklersfarms reporting	4,564	3,782	135
4	acres	554,641	480,392	23,113
5	Sprinklers onlyfarms reporting	3,919	3,278	69
6	acres	479,965	425,032	10,872
	LAND IRRIGATED, BY SOURCE OF WATER TO INDIVIDUAL FARMS, 1959			
7	Ground water sources on farmfarms reporting	19,847	14,202	871
8	acres	4,614,720	2,882,878	180,907
9	Ground water sources on farm only farms reporting	18,843	13,727	530
10	acres	4,407,221	2,771,887	133,593
11	Surface sources on farmfarms reporting	2,031	1,415	402
12	acres	202,335	123,819	64,043
13	Surface sources on farm onlyfarms reporting	1,366	1,002	262
14	scres	140,545	90,503	43,534
15	Irrigation organization sourcesfarms reporting	7,117	1,390	5,126
16	ccres	838;583	240,427	529,187
17	Irrigation organization sources			
	onlyfarms reporting	6,568	1,264	4,787
18	acres	734,777	220,359	461,745
19	Both farm ground water sources and surface sourcesfarms reporting	554	386	61
20	scres	190,977	123,692	17,110
21	Both irrigation organization and farm ground water or farm surface sourcesfarms reporting	553	127	342
22	acres	182,118	40,683	118,155

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	Texas, total							
Item		Mut	nal .	20,000, 00001	U. S. Bureau c	of Reclamation		
(For definitions and explanations, see text)	All types	Unincorporated	Incorporated	District	Projects and storage systems operated by bureau	Operated by	Commercial, Indian, State, city, and other	
Irrigation organizationsorganizations 1959	103 122	25 34	4 11	51 45	1 2	3 2	22 30	
Service area, 1959: Area served, as reported by organizations	1,399,753	46,380	27,601	851,650	76,114	123,328	398,008	
by organizationsacres Water users served, 1959, totalwater users Farm irrigation water users .water users Residential water users .water users Other water users .water users	943,818 33,827 24,588 9,124 115	17,069 201 201	27,601 183 183	647,223 25,277 21,490 3,695 92	59,023 6,736 1,788 4,947	106,650 6,560 	192,902 1,430 926 482 22	
TYPE OF SERVICE, 1959								
All water directly from surface and ground water sources	2,616,143 1,954,653	24 92,025 80,825	116,459 110,881	34 1,181,099 862,806	299,762 197,439	207,491 126,215	21 926,798 702,702	
onlyorganizations acre-feet To farm and residential users and other	1,506,914	80,825	110,881	555,632	197,439	84,655	562,137	
irrigation organizationsorganizations Water to farm and residential	6			218,611		41,520	128,565	
usersacre-feet Water to other irrigation organizationsacre-feet	347,176 64,736			52,736		41,520	128,965	
To other irrigation organizations onlyorganizations	35,827	:::		35,827		:::	:::	
Part of water from other organizationsorganizations Total water conveyedacre-feet	8 65,367	1 910	:::	7 64,457				
From surface and ground water sources	55,603 9,764 52,476	600 310 850		55,003 9,454 51,626	:::			
onlyorganizations acre-feet To farm and residential users and other	13,247	850	:::	12,397	***	:::	:::	
irrigation organizationsorganizations Water to farm and residential	2			2				
usersacre-feet Water to other irrigation organizationsacre-feet	38,893 336			38,893 336				
To other irrigation organizations onlyorganizations								
All of water from other organizationsorganizations Total water conveyed	11 91,135 69,793		:::	10 79,135 57,913		:::	12,000 11,880	
onlyorganizations acre-feet	11 69,793			10 57,913		:::	11,880	
To farm and residential users and other irrigation organizationsorganizations Water to farm and residential								
useraacre-feet Water to other irrigation								
organizations								
acre-feet No water conveyedorganizations		:::	:::	:::	:::	:::	:::	
WATER FROM OTHER SOURCES Organizations reporting no water from other sources used on the land served by the	92	24		43	1		21	
organizationorganizationsacres served acres irrigated water delivered to farms (acre-feet)	1,278,873 861,652 1,777,350	23,880 10,971 28,875 2.6	25,801 25,801 108,422	770,070 575,122	76,114 59,023 188,803	112,728 98,700 109,120	383,008 190,735 668,672	
organizations reporting water from other sources used on land served by the organization	10 120,880	1 22,500	1,800	7 81,580		10,600	15,000	
acres irrigated water delivered to farms (acre-feet) acre-feet per acre	82,166 156,405 1.9	6,098 52,800 8.6	1,800 2,459 1.4	72,101 92,354 1.3		7,950 17,055 2.1	2,167 8,792 4.0	
NEW CAPITAL INVESTMENT, 1950-1959 Expenditures for additional new works and								
equipment for irrigation and drainage, January 1, 1950-becember 31, 1959organizations. By U. S. B. R	50 16,733,025	77 393,175	1,200			865,554	1	

	Texas, total						
Item (For definitions and explanations, see text)		Mut	ual		U. S. Bureau of Reclamation		Commercial,
(FOR definitions and explanations, see text)	All types	Unincorporated	Incorporated	District	Projects and storage systems operated by bureau	Operated by water users	Indian, State, city, and other
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959							
Total entering conveyance systemsorganizations acre-feet	103 2,671,746	92,625	116,459	1,236,102	299,762	3 207,491	926 ,7 98
From another drainage basinorganizations acre-feet					:::		
From drainage basin							
From sources within basinorganizations acre-feet	92 2,671,746 80	92,625 16	116,459	1,236,102 40	299,762	207,491	21 926,798 20
Surface waterorganizations acre-feet Ground waterorganizations	2,638,564	84,769	101,382	1,229,957	299,762	207,491	922,694
acre-feet	33,182	7,856	15,077	6,145	:::		4,104
From other organizations in the basin organizations receiving acre-feet	19 100,899	310		17 88,589	:::		12,000
Total leaving conveyance systemsorganizations acre-feet	103 2,671,746	25 92 ,9 35	4 116,459	51 1,235,792	299,762	3 207,451	22 92 6,7 98
Conveyance loss in basinorganizations	80 470,139	15 11,260	4 5,578	43 264,629	95,551	3 65,722	17 93,121
Conveyed to another drainage basinorganizations acre-feet							
To drainage basin numberD. B. No							
Delivered for use in the basinorganizations acre-feet	102 2,201,607	25 81,675	110,881	50 971,163	204,211	141,729	833,677
To farm irrigation water usersorganizations acre-feet	1,933,755	25 81,675	110,881	874,932	188,803	126,175	677,464
To domestic water usersorganizations acre-feet	16 42,268 24			8,514 17	8,636		25,118 6
For other useorganizations acre-feet	225,584			87,717	6,772	15,554	131,095
Delivered to other irrigation organizations delivering. organizations delivering.	9		:::	8 88,899		1 40	12,000
SIZE OF ORGANIZATION, 1959	200,07.			00,077			
Size of organization (number of farm irrigation water users):							
Noneorganizations 1 to 3 water usersorganizations	1 15			1			
4 to 9 water usersorganizations 10 to 29 water usersorganizations	21 23	10	1 1	7 9			3 7 4
30 to 99 water usersorganizations 100 to 299 water usersorganizations	17 13		2	11 10			4 3
300 to 999 water usersorganizations 1,000 or more water usersorganizations	4 9		:::	4 8	···	2	:::
Size of organization (acre-feet of water delivered directly to farms):							
Noneorganizations 1 to 299 acre-feetorganizations	1 9 12	7 9		1 1 3			"i
300 to 999 acre-feetorganizations 1,000 to 2,999 acre-feetorganizations	26 19	7	i	13			5
3,000 to 9,999 acre-feetorganizations 10,000 to 29,999 acre-feetorganizations	14		2	10		1 2	6 2 6
30,000 to 99,999 acre-feetorganizations 100,000 or more acre-feetorganizations	4			1	ı i		2
Size of organization (acre-feet of water conveyed):							
Noneorganizations 1 to 299 acre-feetorganizations	8 12	6 10		1 2		•••	"i
300 to 999 acre-feetorganizations 1,000 to 2,999 acre-feetorganizations	18	6	i	7			4 4
3,000 to 9,999 acre-feetorganizations 30,000 to 99,999 acre-feetorganizations organizations	17 22	1	2	10		1	4 6
100,000 to 99,999 acre-feetorganizations	6			2	ı	1	3

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State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

		Gulf of Mexic	o excluding Missis	sippi, Rio Gran	de, and Mermentau Ri	LVETS (V-A)	r
Item		Muti	ial		U. S. Buresu of Reclamation		Commercial,
(For definitions and explanations, see text)	All types	Unincorporated	Incorporated	District	Projects and storage systems operated by bureau	Operated by water users	Indian, State, city, and other
rrigation organizationsorganizations 1959	51 67	21 28	2 8	8 5		NA	2 2
ervice area, 1959: Area served, as reported by organizations	559,351	43,770	23,803	103,880		***	387,89
by organizationsacres	278,940	15,043	23,803	48,452		•••	191,64
ter users served, 1959, total	3,800 2,449 1,282 69	169 169 	108	2,105 1,258 800 47	:::		1,41 91 48 2
TYPE OF SERVICE, 1959					1 1		
11 water directly from surface and ground enter sources	1,242,980 967,089	21 89,475 79,123	98,926 96,422	131,232 92,293	:::		923,34 699,25
onlyorganizations acre-feet	826,524	79,123	96,422	92,293			558,68
To farm and residential users and other irrigation organizationsorganizations Water to farm and residential	1						128,56
usersacre-feet Water to other irrigation	128,565					***	
organizations	12,000						12,00
acre-feet							
art of water from other organizations Total water conveyedacre-feet From surface and ground water					:::	***	:
sources	•••				:::	***	:
onlyorganizations					:::		:
To farm and residential users and other irrigation organizationsorganizations Water to farm and residential							
usersacre-feet Water to other irrigation	• • • • • • • • • • • • • • • • • • • •						
organizations							
acre-feet			:::				
ll of water from other organizationsorganizations Total water conveyed	2 13,045 12,611	:::		1,045 731			12,0 11,8
To farm and residential users onlyorganizations acre-feet	12,611	:::	:::	1 731	:::		11,8
To farm and residential users and other irrigation organizationsorganizations							
Water to farm and residential usersacre-feet Water to other irrigation							
organizationsacre-feet To other irrigation organizations	•••		•••	***			
onlyorganizations acre-feet o water conveyedorganizations			:::				
WATER FROM OTHER SOURCES rganizations reporting no water from other							
sources used on the land served by the organizationorganizations acres served	49 527,326 273,809	20 21,270 8,945	2 23,803 23,803	109,355 51,586	i		189.
water delivered to farms (acrc-feet) acre-feet per acre	881,608 3.2	26,323 2.9	96,422 4.0	93,642 1.8	:		
sources used on land served by the organizations organizations acres served	2 37,500	22,500			:		15,0
acres irrigated water delivered to farms (acre-feet) acre-feet per acre	8,265 61,592 7.5	6,098			: :::		2,:
NEW CAPITAL INVESTMENT, 1950-1959 Expenditures for additional new works and							
equipment for irrigation and drainage, January 1, 1950-December 31, 1959organizations By U. S. B. R	21 4,328,527	390,475		3,336,652			601,4

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

	Gulf of Mexico excluding Mississippi, Rio Grande, and Mermentau Rivers (V-A)							
Item (For definitions and explanations, see text)		Mutual			U. S. Bureau of Reclamation		Commercial,	
	All types	Unincorporated	Incorporated	District	Projects and storage systems onerated by bureau	Operated by water users	Indian, State, city, and other	
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959								
Total entering conveyance systemsorganizations acre-feet	51 1,244,025	21 89,475	98 , 926	8 132,277	:::	:::	20 923,347	
From another drainage basinorganizations	1 1,045			1 1,045				
From drainage basin,				-,		•••		
From sources within basinorganizations	49 1,242,980	21 89,475	98,926	7 131,232	:::		19 923,347	
Surface waterorganizations	1,232,974	12 81,719	98,926	131,232	:::		18 921,097	
Ground waterorganizations	10,006	7,756					2,250	
From other organizations in the basin organizations receiving	1						1	
acre-feet	12,000						12,000	
Total leaving conveyance systemsorganizations acre-feet	51 1,244,025	21 89,475	98,926	8 132,277	:::	:::	20 9 23, 347	
Conveyance loss in basinorganizations acre-feet	37 1 1 6,296	11 10,352	2,504	7 10,319	:::	:::	17 93,121	
Conveyed to another drainage basinorganizations acre-feet	•••						:::	
To drainage basin numberD. B. No	•••		:::	:::	:::	:::	:::	
Delivered for use in the basinorganizations acre-feet	1,127,729	21 79,123	96,422	8 121,958			20 830,226	
To farm irrigation water usersorganizations	941,082	79,123	96,422	91,524		:::	20 674,013	
To domestic water usersorganizations	4			3 1,500		:::	25,118	
For other useorganizations sore-feet	26,618 10 160,029		•••	28,934			131,095	
Delivered to other irrigation organizations delivering acre-feet	12,000		***		:::		1 12,000	
SIZE OF ORGANIZATION, 1959								
Size of organization (number of farm irrigation water users). organizations. None	11 12 14 8 5	7 9 5	 1 	 2 3 2 1			4 3 6 4 3	
Size of organization (scre-feet of water delivered directly to farms):	 5 9 13 9 4 9	5 8 6 1	 1	 1 2 3 1 1	:::		5 5 2 6 2	
Size of organization (acre-feet of water conveyed): Mone.	 5 8 10 8 8 9	55 8 55 1 1	 1	1 4 2 1	:::		 4 3 4 6	

NA Not available.

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State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

			Rio Grande	e below Fort Quit	man (V-B)		
Item (For definitions and explanations, see text)		Mut	ual		U. S. Bureau	of Reclamation	Commercial,
	All types	Unincorporated	Incorporated	District	Projects and storage systems operated by bureau	Operated by water users	Indian, State, city, and other
Irrigation organizationsorganizations 1959	50 52	4 6	2	42 38		3 NA	
Service area, 1959: Area served, as reported by organizations	732,487	2,610	(D)	715,969		123,328	(D)
Area irrigated, as reported by organizationsacres	585,384	2,026	(D)	578,300		106,650	(D)
Water users served, 1959, total	22,952 20,014 2,895 43	32 32 	(D) (D)	22,833 19,895 2,895 43		6,566 6,560 	(D (D
TYPE OF SERVICE, 1959							
All water directly from surface and ground water sources. organizations Total water conveyed acre-feet water divered acre-feet for farm and residential users organizations organizations	1,015,888 744,569	2,550 1,702	(D) (D)	25 992,354 724,957	:::	207,491 126,215	(D) (D)
To farm and residential users and other	437,395	1,702	(D)	417,783	:::	84,655	(D)
irrigation organizationsorganizations Water to farm and residential	5			5		1	
useraacre-feet Water to other irrigation	218,611 52,736	•••		218,611		41,520	
organizationsacre-feet To other irrigation organizations onlyorganizations	32,736			52,736		40	
acre-feet	35,827			35,827			
Part of water from other organizations	65,367	1 910		7 64,457			
sourcesacre-feet From other irrigation organizationsacre-feet	55,603 9,764	600 310		55,003 9,454	:::		
Water deliveredacre-feet To farm and residential users onlyorganizations	52,476	850		51,626			
To farm and residential users and other	13,247	850	• • • •	12,397		•••	•••
irrigation organizationsorganizations Water to farm and residential usersacre-feet	38,893			38,893			
Water to other irrigation organizationsacre-feet To other irrigation organizations	336			336			
onlyorganizations acre-feet				• • •			
All of water from other organizations organizations Total water conveyedacre-feet	10 79,135			10 79,135			
Water deliveredacre-fect To farm and residential users onlyorganizations	57,182			57,182		•••	
acre-feet To farm and residential users and other	57,182	:::	::: :	57,182			
irrigation organizationsorganizations Water to farm and residential							
usersacre-feet Water to other irrigation	***						
organizationsacre-feet To other irrigation organizations					•••		
onlyorganizationsacre-feet No water conveyedorganizations.		:::					
WATER FROM OTHER SOURCES Organizations reporting no water from other sources used on the land served by the			•••			•••	•••
organizationorganizations acres served acres irrigated water delivered to farms (acre-feet)	650,152 512,528 664,207	2,610 2,026 2,552	(D) (D) (D)	34 635,434 507,244 646,204		2 112,728 98,700 109,120	2 (D) (D) (D) 2.7
organizations reporting water from other sources used on land served by the	1.3	1.3	(D)	1.3		1.1	2.7
organization	8 83,380 73,901 94,813 1.3	:::	(D) (D) (D) (D)	7 81,580 72,101 92,354 1.3		10,600 7,950 17,055 2.1	
NEW CAPITAL INVESTMENT, 1950-1959 Expenditures for additional new works and equipment for irrigation and wrainage, January 1, 1950-beceaber 11, 1959organizations by 0. S. B. R	29 12,377,498	1 2,700	1 (D)	26 715,969	:::	3 865,554	1 (D)

	Rio Grande below Fort Quitman (V-B)							
Item (For definitions and explanations, see text)		Mut	ual		U. S. Bureau of Reclamation			
(100 02.111.200.00	All types	Unincorporated	Incorporated	District	Projects and storage systems operated by bureau	Operated by water users	Commercial, Indian, State, city, and other	
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959								
Total entering conveyance systemsorganizations acre-feet	50 1,071,491	3,150	2 (D)	1,047,357	:::	3 207,491	(D)	
From another drainage basinorganizations acre-feet					:::			
From drainage basin				- :::	:::			
From sources within basinorganizations	1,071,491	3,150	2 (D)	32 1,047,357	:::	207,491	2 (D)	
Surface waterorganizations	38 1,053,315	3,050	(D)	31 1,046,212		207,491	(D)	
Ground waterorganizations	18,176	100	(D)	3 1,145	[(D)	
From other organizations in the basin organizations receiving	18 88,899	1 310	•••	17 88,589				
Total leaving conveyance systemsorganizations acre-feet	50 1,071,491	3,460	2 (D)	42 1,047,047		3 207,451	(D)	
Conveyance loss in basinorganizations	42 247,575	4 908	(D)	36 243,593	:::	3 65,722		
Conveyed to another drainage basinorganizations	1 015			1				
To drainage basin numberD. B. No	1,045			1,045	:::		:::	
Delivered for use in the basinorganizations	49	4	2 (D)	41 802,409		3 141,729	2 (D)	
acre-feet To farm irrigation water usersorganizations	822,871 49 758,314	2,552 4 2,552	(D) (D)	737,852	:::	126,175	(D)	
acre-feet To domestic water usersorganizations	12			737,832 12 7,014	:::			
acre-feet For other useorganizations acre-feet	7,014 12 57,543	:::	•••	7,014 12 57,543		2 15,554		
Delivered to other irrigation organizations delivering. acre-feet	88,899			8 88,899		1 40		
SIZE OF ORGANIZATION, 1959								
Size of organization (number of farm irrigation water users). None	1 4 9 9 9 7 7 3 8	2 1 1 	(D) (D) (D) (D) (D) (D) (D)	1 1 7 7 8 8 7 3 8	:::	 1 2	(D) (D) (D) (D) (D) (D) (D)	
Size of organization (nore-feet of water delivered directly to farms):	1 4 3 14 10 8 9	2 1 1 	(D) (D) (D) (D) (D) (D) (D) (D)	1 1 2 12 9 7 7 9	:::	 1 2	(D) (D) (D) (D) (D) (D) (D) (D)	
Size of organization (acre-feet of winter conveyed);	3 4 8 13 8 8 12 2	1 2 1 	(D) (D) (D) (D) (D) (D) (D)	1 2 6 12 7 7 12 2	:::	 1 1	(D) (D) (D) (D) (D) (D) (D)	

 $[\]ensuremath{\mathsf{D}}$ Data not shown to avoid disclosure of information for individual operations. NA Not available.

State Table 5.-NUMBER OF IRRIGATION ORGANIZATIONS, TYPE OF SERVICE, NEW CAPITAL INVESTMENT, AND WATER CONVEYED, BY SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUS OF 1959

Item		Texas,	total			Mexico exclo Crande, and Me (V-)	ermentau Rive	
(For definitions and explanations, see text)			Size of or	ganization, b	y total water	conveyed		
	0-999 acre-feet	1,000- 9,999 acre-feet	10,000- 99,999 acre-feet	100,000 or more acre-feet	0-999 acre-feet	1,000- 9,999 acre-feet	10,000- 99,999 acre-feet	100,000 or more scre-feet
Number of organizationsorganizations	20	38	39	6	13	18	17	
All water directly from surface and ground sourcesorganizations	17	27	34	6	13	18	15	
Total water conveyedacre-feet Water deliveredacre-feet	6,325 6,054	164,811 94,306	1,500,370 1,134,015	944,637 720,278	5,247 5,056	130,677 68,299	716,396 551,710	390,66 342,02
To farm and residential users onlyorganizations acre-feet	6,054	94.306	28 826,841	579.713	13 5,056	18 68,299	15 551.710	201.45
To farm and residential users and other irrigation organizationsorganizations		,	5	1		,		
Water to farm and residential usersacre-feet Water to other irrigation organizationsacre-feet			218,611	128,565	• • •	:::	:::	128,50
To other irrigation organizations onlyorganizations	:::	:::	52,736 1	12,000		:::	:::	ĺ
Part of water from other organizationsorganizations			35,827				•••	
Total water conveyedacre-feet	1,594	16,299	47,474		:::	:::	:::	::
From surface and ground water sourcesacre-feet From other irrigation organizationsacre-feet	691 903	7,645 8,654	47,267 207					::
Water deliveredacre-feet To farm and residential users onlyorganizations	1,534	14,820	36,122			:::		::
acre-feet To farm and residential users and other	1,53	11,713				:::	:::	::
irrigation organizationsorganizations		1	1					
Water to farm and residential usersacre-feet Water to other irrigation organizationsacre-feet		3,036 71	35,857 265	:::		:::	:::	::
To other irrigation organizations onlyorganizations			:::					
All of water from other organizationsorganizations	1	7	3			1	1	::
Total water conveyedacre-feet Water deliveredacre-feet	165 124	30,183 17,880	60,787 51,789		:::	1,045 706	12,000 11,905	1 ::
To farm and residential users onlyorganizations	1 124	17,880	51,789			1 706	11,905	
To farm and residential users and other	124	17,880	31,789	•••		706	11,905	
irrigation organizationsorganizations Water to farm and residential usersacre-feet							:::	::
Water to other irrigation organizationsacre-feet To other irrigation organizations onlyorganizations		•••		•••				
acre-feet					:::	:::	:::	::
water conveyedorganizations				•••	•••			
WATER FROM OTHER SOURCES Drganizations reporting NO water from other sources used								
on land served by the organizationorganizations	20	34	32	6	13	18	15	
acres served acres irrigated	17,912 5,378	147,016 74,170	810,582 503,985	303,363 278,119	2,708 2,028	61,586 42,162	373,636 140,223	89,39 89,39
Organizations reporting water from other sources used on land served by the organizationorganizations			6				2	
acres served		13,685	107,195		:::		37,500	::
acres irrigated NEW CAPITAL INVESTMENT, 1950-1959	•••	10,617	71,549		•••		8,265	
Expenditures for additional new works and								
equipment for irrigation and drainage, January 1, 1950-December 31, 1959organizations	2	17	27		,		10	
dollars	20,475	2,440,600	12,701,396	1,570,554	15,901	2,106,454	2,061,172	145,00
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959								
Total entering conveyance systems in basinorganizations acre-feet	20 7,016	38 172,456	1,547,637	944,637	13 5,247	19 131,722	16 716,396	390,66
From another drainage basinorganizations		•••		:::	:::	1,045	:::	.:
From Drainage Basin number D. B. No	19	31	36		13	18	15	
acre-feet	7,016	172,456	1,547,637	944,637	5,247	130,677	716,396	390,66
Surface waterorganizations acre-feet	4,013	27 162,277	1,527,637	944,637	2,344	15 123,574	716,396	390,66
Ground waterorganizations ecre-feet	3,003	10,179	20,000		2,903	7,103		::
From other organizations in the basin	1,068	12 38,837	60,994	:::			12,000	::
Total leaving conveyance systemsorganizations	20	38	39	6	13	19	16	
6cre-feet Conveyance loss in basinorganizations	8,084	211,222	1,519,803	932,637	5,247	131,722	728,396 15	378,66
acre-feet Conveyed to another drainage basinorganizations	372	24,730	248,850	196,187	191	4,235	63,234	48,63
acre-feet			:::	:::			:::	::
To drainage basin number	20	39	38		13	19	16	l
To farm irrigation water usersorganizations	7,712 20	39	1,270,953	736,450 6	5,056 13	127,487 19	665,162 16	330,02
acre-feet To residential water usersorganizations	7,712	98,010	1,128,391	699,642	5,056	42,412	563,590	330,02
acre-feet For other useorganizations		28,925	4,707 17	8,636		26,618		
acre-feet		59,557	137,855	28,172	:::	58,457	101,572	::
Delivered to other irrigation organisationsorganisations delivering acre-feet	:::	1 71	88,828	12,000	:::	:::	:::	12,00
AVERAGE DELIVERY OF IRRIGATION WATER PER ACRE, 1959								
Per acre irrigated, as reported by irrigation organization:	1.4	1.1	2.0	2.3	2.5	1,1	4.1	3.
All organizations	20		· · · · · · · · · · · · · · · · · · ·				15	,.
		34	32	6	13	18		

State Table 5.—NUMBER OF IRRIGATION ORGANIZATIONS, TYPE OF SERVICE, NEW CAPITAL INVESTMENT, AND WATER CONVEYED, BY SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUS OF 1959—Continued

Item (For definitions and explanations, see text)		Rio Grande below Fort Quitman (V-B)	
(FOR delimitions und explanations, see text)	Size of	organization, by total water conveye	d
	0-999 acre-feet	1,000-9,999 acre-feet	10,000 or more acre-feet
Number of organizations	7	21	
All water directly from surface and ground sourcesorganizations	4	9	
Total water conveyedacre-feet	1,078	34,134	98
Water deliveredacre-feet To farm and residential users onlyorganizations	998 4	26,007	71
To farm and residential users and other	998	26,007	41
irrigation organizations			21
Water to other irrigation organizationsacre-feet	:::		
To other irrigation organizations onlyorganizations acre-feet	***	:::	3
Part of water from other organizationsorganizations	2	5	
Total water conveyed	1,594	16,299 7,645	2
From other irrigation organizationsacre-feet	903	8.654	
Water deliveredacre-feet To farm and residential users onlyorganizations	1,534	14,820	3
To farm and residential users and other	1,534	11,713	
irrigation organizationsorganizations Water to farm and residential usersacre-feet		3,036	:
Water to other irrigation organizationsacre-feet		71	=
To other irrigation organizations onlyorganizations acre-feet	***	:::	
all of water from other organizationsorganizations	1	7	
Total water conveyed	165 124	30,183 17,149	4
To farm and residential users onlyorganizations	1	7	
To farm and residential users and other	124	17,149	;
irrigation organizationsorganizations Water to farm and residential usersacre-feet		:::	
Water to other irrigation organizationsacre-feet			
To other irrigation organizations onlyorganizations acre-feet		:::	
No water conveyedorganizations			
WATER FROM OTHER SOURCES		1	
Organizations reporting NO water from other sources used	7	17	
on land served by the organizationorganizations acres served	15,204	94,150	54
acres irrigated Organizations reporting water from other sources used	3,350	38,387	4'
on land served by the organizationorganizations		4	
acres served acres irrigated		13,685 10,617	6
NEW CAPITAL INVESTMENT, 1950-1959		15,617	•
Expenditures for additional new works and			
equipment for irrigation end drainage, January 1, 1950-December 31, 1959organizations	1	10	
dollars	5,000	333,720	12,00
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959 Total entering conveyance systems in basinorganizations		21	
acre-feet	1,769	41,779	1,02
From another drainage basinorganizations		:::	
From Drainage Basin number D. B. No. From natural sources within basin organizations		14	
acre-feet	1,769	41,779	1,02
Surface waterorganizations acre-feet	1,669	13 38,703	1,01
Ground waterorganizations	1	3,076	
From other organizations in the basinorganizations receiving acre-feet	1,068	12 38,837	- 4
Total leaving conveyance systemsorganizations	7,068	38,837 21	4
acre-feet	2,837	80,545	98
Conveyance loss in basinorganizations	181	20,495	22
Conveyed to another drainage basinorganizations acre-feet		1,045	
To drainage basin number. D. B. No		21	
acre-feet	2,656	59,005	76
To farm irrigation water usersorganizations acre-feet	2,656	21 55,598	70
To residential water usersorganizations		2,307	
For other useorganizations		1	
Delivered to other irrigation organizations organizations delivering		1,100	5
AVERAGE DELTHERY OF TRACAMICAN HATER THE LAGE	/	71	8
AVERAGE DELIVERY OF IRRIGATION WATER PER ACRE, 1959 Per acre irrigated, as reported by irrigation organization:			
All organizations	8.0	1.2	
Organizations reporting NO water from other sources used on land served by the organizationorganizations	7	17	

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State Table 1.-NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS,

	I I	1	North Pacif	ic Coast: Snak	œ River,		Borneville	e Basin excluding Bear River (III-D)			
- 1			King Hill	, Idaho, to A ls, Idaho (I-C	merican			Grea excl	t Salt Lake H uding Bear R	Basin iver	
	Item (For definitions and explanations, see text)	The State	Total	Upper Goose Creek	Raft River	Great Basin	Total	Total	Northwest Great Salt Lake Basin	Southwest Great Salt Lake Basin	
				(4)	(5)				(1)	(2)	
1 2	Total acres irrigated in Census year	1,061,683 1,166,972	5,000 6,320	1,000 510	4,000 5,810	787,000 856,568	592,000 669,906	320,000 356,124	10,000 14,470	11,000 13,987	
3 4	Irrigation organizationsorganizations 1959	984 1,058	7 7	:::	7 7	814 871	676 732	420 450	8	22 22	
5	Service area, 1959: Farm area reported served by organizations	1,300,483	5,640		5,640	944,774	738,026	377,385	9,540	14,340	
6	Farm area reported irrigated by organizationsacres 1959	1,109,620	4,280		4,280	795,207	606,211	347,251	6,970	10,138	
7	Water users served, totalwater users 1959	90,952	51		51	81,579	71,880	57,382	105	813	
8	Farm irrigation water userswater users 1959	43,001	51	• • • • • • • • • • • • • • • • • • • •	51	35,979	29,272	20,829	98	246	
9	Reaidential water userswater users 1959	47,519				45,168	42,182	36,489	7	563	
10	Other water userswater users 1959	432				432	426	64		4	
	LAND IRRIGATED BY SOURCE OF WATER, 1959	3.50 000								30.000	
11	Ground water sourcesacres	157,999	1,000	1,000	/ 000	141,000	122,000	40,000	2,000	10,000	
12	Surface water sources	903,684	4,000		4,000	646,000	470,000	280,000	8,000	1,000	
13 14	Total entering conveyance systems in basin	978 3,648,089	7 5,028	:::	7 5,028	809 2,621,153	671 2,041,426	416 1,327,163	8 13,090	22 21,349	
15 16	From another drainage basinorganizations acre-feet	91,394	:::			14 197,732	8 131,192	7 115,862	2,565	1 669	
17	From drainage basin numberD. E. No								IV-E-2	TV-E-5Ъ	
18 19	From natural sources within basinorganizations acre-feet	863 3,556,695	7 5,028	:::	7 5,028	702 2,423,421	605 1,910,234	359 1,211,301	7 10,525	21 20,680	
20 21	Surface waterorganizations acre-feet	754 3,401,225	4,172	:::	4,172	605 2,293,755	526 1,805,542	326 1,162,637	8,740	14 10,414	
22 23	Ground waterorganizations acre-feet	152 155,470	9 856	:::	3 856	133 129,666	104,692	48,664	1,785	10,266	
24 25	From other organizations in the basin	179 557,722	:::	:::	:::	165 457,542	126 364,126	109 293,379	:::	:::	
26 27	Total leaving conveyance systemsorganizations acre-feet	978 3,648,089	7 5,028	:::	7 5,028	809 2,621,153	671 2,041,426	416 1,327,163	13,090	22 21,349	
28 29	Gonveyance loss in basinorganizations acre-feet	808 466,721	7 1,362	:::	7 1,362	662 362,314	547 276,694	326 138,593	5 897	20 3,332	
30 31	Conveyed to another drainage basinorganizations acre-feet	13,355		:::		8,835	2,920		:::		
32	To drainage basin numberD. B. No										
33 34	Delivered for use in the basinorganizations acre-feet	970 3,168,013	7 3,666	:::	7 3,666	803 2,250,004	666 1,761,812	413 1,188,570	8 12,193	22 18,017	
35 36	To farm irrigation water usersorganizations acre-feet	965 2,956,192	7 3,666	:::	7 3,666	798 2,056,947	662 1,591,551	409 1,038,289	11,827	22 16,743	
37 38	To residential water usersorganizations acre-feet	245 132,501	:::	:::	:::	212 113,737	187 96,141	79,485	1 366	1,034	
39 40	For other useorganizations acre-feet	30 79,320		:::	:::	30 79,320	74,120	70,7 9 6	:::	1 240	
41 42	l'elivered In other irrigation organizations	52 557,722	:::	:::	:::	44 457,542	39 364,126	29 293,379	:::	:::	
43	Average delivery of irrigation water per acre irrigated as reported by organizationsacre-feet	2.7	0.9		0.9	2,6	2.6	3.0	1.7	1.7	
44	NEW CAPITAL INVESTMENT, 1950-1959 Expenditures for additional new works and equipment for irrigation and drainage, Jan. 1, 1950-pec. 31, 1959organizations dollars	564 38,346,259	2,300		2,300	432 36,175,666	356 35,736,541	203 33,356,503	6 258,709	8 112,178	

^{13,590} acre-feet from D. B. No. III-B-1a, 8,909 acre-feet from D. B. No. III-D-3b.

24,599 acre-feet from D. B. No. III-D-3b, 27,00 acre-feet from D. B. No. III-D-3c.

26,700 acre-feet from D. B. No. III-D-3c.

40,200 acre-feet from D. B. No. III-D-3c.

40,200 acre-feet from D. B. No. III-D-3c.

40,200 acre-feet from D. B. No. III-D-3c.

40,200 acre-feet from D. B. No. III-D-3c.

40,200 acre-feet from D. B. No. III-D-3c.

40,200 acre-feet from D. B. No. III-D-3c.

40,797 acre-feet from D. B. No. III-D-3c.

40,797 acre-feet from D. B. No. III-D-3c.

1026,700 acre-feet for D. B. No. III-D-3c.

112,181 acre-feet to D. B. No. III-D-3c.

120,240 acre-feet to D. B. No. III-D-3c.

120,250 acre-feet from D. B. No. III-D-3c.

120,250 acre-feet from D. B. No. III-D-3c.

120,250 acre-feet from D. B. No. III-D-3c.

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120,250 acre-feet from D. B. No. III-D-3c.

120,200 acre-feet from D. B. No. III-D-3c.

120,200 acre-feet from D. B. No. III-D-3c.

120,200 acre-feet from D. B. No. III-D-3c.

120,200 acre-feet from D. B. No. III-D-3c.

BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950

	Bonneville Basin excluding Bear River (III-0)—Continued													Ī
		Great Sa	lt Lake Basin	excluding Be	ar River—Con	tinued					Se vi er River			
		,	Southeast	reat Salt La	ke Basin						Sevier Riv	er direct		
Total	Great Salt Lake direct	Weber River above Gateway	Total	Jordan River direct	Jordan Weat Utah Lake area	Northeast Utah Lake area	Provo River above Vivian	S. E. Utah Lake area	Total	Total	Selow Gunnieon	Gunnison to Sevier	Above Sevier	
299,000	(3a) 89,000	(3b) 40,000	170,000	(3e) 48,000	(3d) 25,000	(3e) 33,000	(3f) 22,000	(3g) 42,000	204,000	151,000	(4a) 73,000	(4b) 53,000	(4e) 25,000	┨.
327,667	94,929	38,351	194,387	54,685	22,722	33,679	27,747	55,554	242,813	171,814	77,877	69,551	24,386	2
390 418	139 140	93 109	163 172	58 64	16 16	37 35	30 33	29 29	186 193	105 112	40 41	48 51	20 23	1
353,505	94,785	30,618	228, 102	68,409	24,124	44,384	26,766	64,419	308,895	218,164	115,822	78,760	23,582	
330,143	84,913	29,972	215,258	65,385	21,814	41,309	26,126	60,624	232,461	166,642	83,985	62,072	20,585	
56,464 20,485	18,587 5,768	1,532 1,024	36,345 13,693	18,293 3,852	1,003 855	8,639 4,733	1,627	6,783 3,059	11,957 7,324	8,166 4,960	2,603	4,550 2,312	1,013	
35,919	12,801	472	22,646	14,437	148	3,904	433	3,724	4,271	2,846	402	2,104	340	1
60	18	36	6	4		2			362	360	1	134	225	1
28,000	11,000	1,000	16,000	3,000	5,000	5,000	2,000	1,000	34,000	24,000	23,000	1,000		1
271,000	78,000	39,000	154,000	45,000	20,000	28,000	20,000	41,000	170,000	127,000	50,000	52,000	25,000	12
387 1,292,724	138 312,739	93 174,250	161 843,996	57 382,367	16 95,241	37 221,156	29 128,016	29 134,757	184 617,145	104 496,619	39 195,383	48 204,089	20 107,387	11
112,628	12,499	7,295	131,095	48,881 48,881	44,745	23,915	64,822	66,273	:::	17,278	10,240	3 17,278	:::	1:
	(¹)	(²)		(°)	(4)	(5)	(6)	IV-E-5a			(7)	(ª)		17
331 1,180,096	98 300,240	89 166,955	146 712,901	53 333,486	14 50,496	27 197,241	26 63,194	27 68,484	178 617,145	96 479,341	36 185,143	40 186,811	20 107,387	18
306 1,143,483	90 293,936	88 163,969	130 685,578	47 329,028	43,138	23 188,453	26 57,493	26 67,466	151 584,119	459,156	169,232	40 185,057	20 104,867	20
36,613	13 6,304	3 2,986	21 27,323	6 4,458	7,358	8,788	5, 7 01	1,018	43 33,026	25 20,185	19 15,911	1,754	2,520	22
109 293,379	68 113,153	5 1,188	36 179,038	14 54,993	40 ,20 0	16 77,584	2 4,979	1,282	15 63,147	7 60,361	:::	7 60,361	:::	24
387 1,292,724	138 312,739	93 174,250	161 843,996	57 382,367	16 95,241	37 221,156	29 128,016	29 134,757	184 617,145	104 496,619	39 195,383	48 204,089	20 107,387	20
301 134,364	105 29,779	82 20,585	117 84,000	48 40, 101	14 8,880	27 19,528	15 6,583	17 8,908	169 130,650	99 1 12, 550	37 48,840	47 46,483	18 17,227	28
:::	:::	3 33,666	4,595	9,900	40,715	62,381	4,595	4,545	2,920	:::	:::	10,240		30
		(°)		III-0-3e	(10)	(11)	(12)	III-0-3d				(13)		3
383 1,158,360	136 282,960	92 119,999	158 755,401	332,366	15 45,646	37 139,247	27 116,838	28 121,304	184 483,575	104 384,069	39 146,543	48 147,366	20 90,160	3:
379 1,009,719	134 241,198	92 107,033	156 661,488	265,787	15 44,780	35 122,254	27 114,015	28 114,652	184 469,346	104 373,206	39 143,163	48 143,188	20 86,855	3:
78,085	19,812	3,802	54,471	39,191	866 866	4,939	2,823	6,652	41 11,635	8,272	3,352	15 3,705	1,215	35
70,556	21,950	9,164	39,442	27,388	:::	12,054	:::	:::	2,594	2,591	28 28	2 473	2,090	39 40
29 293,379	7 113,153	1,188	21 179,038	7 54,993	40,200	9 77,584	4,979	1,282	63,147	60,361	:::	60,361	:::	41
3.1	0.3	3.6	3.1	4.1	2.1	3.0	4.4	1.9	2.1	2.2	1.7	2.3	4.2	4:
189 32,985,616	64 10,584,743	36 11,843,853	91 10,557,020	18 332,800	11 118,722	26 5,242,433	21 4,762,196	19 100,869	123 1,666,860	82 1,251,120	31 1,033,100	37 129,036	15 88,984	44

IRRIGATION OF AGRICULTURAL LANDS

State Table 1.-NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS,

Total large Company				Bonneville	Basin exclud	ling Bear Riv	er (III-D)-	-Continued		Bear	Rîver (III	·E)
Trick definitions and equivalentical, see term Data Price Data P		Item				Foodlante		Little				
Total acres in tigated in Comme year 1999		(For definitions and explanations, see text)		East Fork	Snake Valley	River and Shoal	Beaver River	Salt Lake		Total	Total	Below Alexander, Idaho
1996 1997 1998 1999			(4d)	(4e)	(5)	(6)	(7)	(8)	(9)			(10)
Service area, 1997; Part area proported survey Part area proported s	1 2	Total acres in rigated in Census year	47,000 58,675	6,000 12,324	10,000 10,079	18,000 14,322	22,000 24,414	6,000 8,733	12,000 13,421	195,000 186,662	154,000 148,681	101,000 94,005
20 Part area reported carred Part area reported carred Part area reported trigged Part area reported Part area reported trigged Part area reported Part	3	1949			6 7	5 8		7 10				78 78
The companies of the	5	Farm area reported served	81,131	9,600	7,287	6,520	20,066	10,058	7,815	206,748	168,661	111,029
B Farm irrigation water users	6	Farm area reported irrigated by organizationsacres 1959	58,589	7,230	6,447	1,910	10,230	3,071	4,841	188,996	153,429	99,161
Besidential water users water users 1999. 1,324 101	7	Water usera served, totalwater users 1959	3,496	295	31	86	591	633	1,200	9,699	5,021	4,508
10 Other water users	8	Farm irrigation water userswater users 1959	2,170	194	31	86	558	232	212	6,707	3,966	3,534
LANS HANK HANK HANK HANK HANK HANK HANK HANK HANK	9	Residential water userswater users 1959	1,324	101	•••		33	401	988	2,986	1,054	973
13 Ground water accurees	10		2				•••			6	1	1
Surface water sources 37,000 6,000 6,000 1,000 10,000 3,000 176,000 142,000		· · · · · · · · · · · · · · · · · · ·	30.000		,	177.000	10.000					
WATER CONTYPED BY IRRIGATION CRGANIZATIONS, 1999 100 1												9,000
13 Total entering conveyance gystess in basin	12		37,000	6,000	6,000	1,000	10,000		3,000	176,000	142,000	92,000
Secrete Secretary Secret		Total entering conveyance systems in basinorganizations			6 25,345	5 7,196		7 12,594				78 341,873
18 From natural sources within basinorganizations 65 17 33,009 10,015 7,196 34,112 12,994 17,671 513,187 378,667 2 2 2 2 2 3 3 3 3 3					15,330							9 77,860
19	17	From drainage basin numberD. B. No			TV-E-5c							(1)
Total leaving conveyance systems	18 19				10,015	7,196		7 12,594	19 17,871			35 264,013
23 acre-feet. 12,476 365 5,550 5,550 5,550 2,151 3,285 6,466 24,974 10,540 24 From other organizations in the basin core-feet. 1,706 1,080	21	acre-feet	92,319					9,309	11,405	488,213	368,107	27 254 , 673
Delivered for use in the basinorganizations 65 18 6 5 32 7 19 138 102 11,205 12,205 104 105	23	acre-feet			5,550	5,550	2,151	3,285				9,340
27		basınorganı satı ans receiving	7 1,706	1,080				:::	:::			37 83,916
Accepted to another drainage basin.organizations 1,446 3,654 1,468 581 3,375 1,007 1,020 85,620 62,807	27	acre-feet				7,196		7 12,594	19 17,8 7 1			78 341,873
acre-feet 17,778 2,920	28 29				1,468	581		1,007				55,565
33 Delivered for use in the basinorganizations 65 18 26,435 23,877 6,615 30,737 11,587 16,851 488,192 387,855 2 36 37 37 37 37 37 37 37	30 31		3 17,278	2,920	•••	:::		:::		5 12,205	12,205	2 3,625
26,435 23,877 6,615 30,737 11,587 16,851 488,152 387,855 2 2 387 36 37,755 37,655 2 387,655 38 36 37,702 37,002 37	32	To drainage basin number	(5)	IV-D-la								(6)
Reference Refe					6 23,877	5 6 ,61 5		7 1 1, 587			102 387,855	78 282,683
38	36	To farm irrigation water usersorganizations acre-feet			23,877	6,6 1 5		9,407				78 276,905
40 nere-feet 3	38	To residential water usersorganizations acre-feet						1,450				3,218
orymisations	39 40			:::		:::	:		:::	5,200	2,560	2,560
4rrigated as reported by organizationsacre-feet 1.2 3.6 3.7 3.5 3.0 3.1 2.7 2.5		organizations organizations delivering									4 83,916	4 83,916
44 Expenditures for additional new works and equipment for irrigation and drainage, Jan. 1, 1950-Dec. 31, 1959-Dec	43	Average delivery of irrigation water per acre irrigated as reported by organizationsacre-feet	1.2	3.6	3.7	3.5	3.0	3.1	2.7	2.5	2.5	2.8
dollars 278,033 137,707 101,000 328,185 133,100 21,418 129,475 439,125 298,721 2		Expenditures for additional new works and equipment for irrigation and drainage, Jan. 1, 1950-Dec. 31, 1959organizations		137,700	3 101.000	3 328.185		2 21,438		76 439,125		44 212,871

D Data not shown to avoid disclosure of information for individual organizations. \$\frac{1}{2}63,690 \text{ acre-feet from D. B. No. IV-B-3, 1,980 acre-feet from D. B. No. IV-B-3, 1,980 acre-feet from D. B. No. III-B-1c, 6,360 acre-feet from D. B. No. III-B-3c. \$\frac{2}{2},920 \text{ acre-feet from D. B. No. III-B-1c, 6,360 acre-feet from D. B. No. III-B-3c. }\frac{2}{2},920 \text{ acre-feet from D. B. No. III-B-4c, 750 acre-feet from D. B. No. III-B-3c. }\frac{2}{17},278 \text{ acre-feet to D. B. No. III-B-4b.}\frac{2}{3},990 \text{ acre-feet to D. B. No. III-B-4c.}\frac{2}{17},278 \text{ acre-feet to D. B. No. III-B-4c.}\frac{2}{3},990

BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950-Continued

Bear Rive	r (III-E)—Co	ntinued		Color Lees Fer	ado River bel ry, Arizona (IOW IV-B)	Colorado	River above I luding Green	ees Ferry, A River (IV-D)	rizona	Gre	en River (IV	-E)	
ear River direct— Continued Alexander to Woodruff, Utah and above Woodruff	Upper Malad River	Little Bear River	Gulf of California	Total	Colorado River direct	Virgin River	Total	Colorado River direct	San Juan Hiver direct and Dolores River	Fremont River	Total	Green River direct and Henrys Fork	San Rafael River	
(1b, le)	(2)	(3)			(1b)	(3a)		(la)	(2a, 4a)	(3)		(1, 9)	(2)	1
53,000 54,676	1,000 797	40,000 37,184	270,000 304,084	21,000 19,583	3,000 1,531	18,000 18,052	32,000 47,145	7,000 17,242	4,000 6,566	21,000 23,337	217,000 237,356	20,000 20,241	25,000 36,009	
26 25	2 2	38 38	163 184	44 54	3	41 51	44 46	21 22	5 8	19 17	79 84	11 12	5	
57,632	(D)	(D)	350,069	22,240	1,980	20,260	47,700	16,180	3,646	27,874	280,129	32,105	31,950	1
54,268	(D)	(D)	310,133	15,784	1,165	14,619	32,976	10,327	2,082	20,567	261,373	30,745	25,265	-
513	(D)	(D)	9,322	1,740	268	1,472	1,418	655	58	705	6,164	338	1,091	
432	(D)	(D)	6,971	1,104	88	1,016	970	382	58	530	4,897	221	679	
81	(D)	(D)	2,351	636	180	456	448	273		175	1,267	117	412	
3,000	1,000	6,000	16,000	7,000		7,000	5,000		1,000	4,000	4,000	1,000		
50,000		34,000	254,000	14,000	3,000	11,000	27,000	7,000	3,000	17,000	213,000	19,000	25,000	
26 127,174	(D)	38 (D)	163 1,179,952	44 85,721	3 5,014	80,707	44 103,344	21 30,849	5,180	19 68,065	78 942,101	11 148,771	4 89,144	
3 12,540	(p)		5 51,706				2,920	3,670		:::		12,736		
(2)	(D)							(3)				(4)		
25 114,634	(D)	37 (D)	156 1,128,246	41 85,721	3 5,014	38 80,707	43 100,424	19 27,179	5,180	19 68,065	73 942,101	136,035	89,144	
25 113,434	(D)	27 (D)	147 1,103,298	34 72,936	1,029	33 71,907	41 90,146	18 26,690	5,180	19 58 ,2 76	72 940,216	9 136,035	89,144	
1,200	:::	12 (D)	16 24,948	10 12,785	2 3,985	8 8,800	5 10,278	2 489	:::	9,789	1,885	:::		
:::	:::	(D)	14 100,180	4 8,895		4 8,895	206		:::	1 206	9 91,079	:::	:::	
26 127,174	2 (D)	38 (D)	163 1,179,952	85,721	3 5,014	41 80,707	44 103,344	21 30,849	5,180	19 68,065	78 942,101	11 148,771	89,144	
24 7,242	(D)	30 (D)	139 103,045	33 3,969	2 283	31 3,686	41 19,107	18 4,001	5 883	19 14,223	68 79,969	10,582	11,541	
3 14,760		3 (D)	9 162,564	:::	:::	:::	:::	:::	1 750	:::	113,778	7,440	32,599	
(7)		(8)							IV-D-la				TV-E-3	1
24 105,172	(D)	37 (D)	160 914,343	44 81,752	3 4,731	41 77,021	44 84,237	21 26,848	5 3,547	19 53,842	75 748,354	10 130,749	45,004	
24 104,849	(D)	37 (D)	160 895,579	75,286	3,365	71,921	81,173	25,272	5 3,547	19 52,354	74 739,120	10 126,837	43,237	
3 323		15 (D)	34 18,764	12 6,466	2 1,366	5,100	8 3,064	1,576	:::	1,488	9,234	3,9 <u>12</u>	3 1,767	
:::	(D)	(D)	:::	:::	:::	:::	:::	:::	:::	:::	:::	:::	:::	
:::	:::	(D)	100,180	8,895	:::	8,895	206	:::		1 206	91,079	:::	:::	
1.9	(D)	(D)	2.9	4.8	2.9	4.9	2.5	2.4	1.7	2.5	2.8	4.1	1.7	
6 85 , 850	(D)	27 (D)	128 2,168,293	33 455,794	2 15,200	31 440,594	31 571,386	14 276,194	76 , 970	14 218,222	68 1,141,113	10 209,390	3 111,546	

State Table 1.-NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950-Continued

				l	Green River (IV Duchesn			I	
	Item (For definitions and explanations, see text)	Price River	White River	Total	Duchesne River direct	Uintah River	Lake Fork	Ashley Creek and Brush Creek	Blacks Fork
		(3)	(4)		(5a)	(56)	(5c)	(6, 7)	(10a)
1 2	Total acres irrigated in Census year1959	15,000 16,973		139,000 137,742	38,000 32,627	68,000 73,129	33,000 31,986	18,000 26,391	
3 4	Irrigation organizationsorganizations 1959	12 12	:::	42 42	30 28	15 16	8	14 16	
5	Service area, 1959: Farm area reported served by organizations	32,761		158,137	41,468	86,986	29,683	25,176	
6	Farm area reported irrigated by organizationsacrea 1959	31,203		154,684	39,949	86,238	28,497	19,476	
7	Water users served, totalwater users 1959	1,523	• • • • • • • • • • • • • • • • • • • •	1,928	506	1,135	287	1,284	
8	Farm irrigation water userswater users 1959	1,066		1,820	473	1,063	284	1,111	
9	Residential water userswater users 1959	457		108	33	72	3	173	
10	Other water userswater users 1959								
	LAND IRRIGATED BY SOURCE OF WATER, 1959								
11	Ground water sourcesacres		•••	2,000		1,000	1,000	1,000	•••
12	Surface water sourcesacres	15,000	•••	137,000	38,000	67,000	32,000	17,000	•••
13 14	WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959 Total entering conveyance systems in basin	12 81,505		42 599,959	30 294,322	15 282,929	8 125,663	14 71,508	:::
15 16	From another drainage basinorganizations acre-feet	1 32,599			75,310	27,645		3,451	•••
17	From drainage basin numberD. B. No	(1)			(2)	(3)		IV-E-7	
18 19	From natural sources within basinorganizations acre-feet	10 48,906		39 599,959	22 219,012	13 255,284	8 125,663	13 68,057	•••
20 21	Surface waterorganizations acre-feet	10 48,906		38 598,074	21 217,127	13 255,284	8 125,663	13 68,057	
22 23 24	Ground waterorganizations acre-feet	:::		1,885	1,885		:::		•••
25	From other organizations in the basinorganizations receiving	1		7	4	3	1	1	
26 27	acre-feet Total leaving conveyance systemsorganizations acre-feet	8,732 12 81,505		80,603 42 599,959	69,475 30 294,322	10,216 15 282,929	912 8 125,663	1,744 14 71,508	
28 29	Conveyance loss in basinorganizations acre-feet	12 20,538		31 26,513	22 16,155	10 7,970	3 2,388	14	
30 31	Conveyed to another drainage basinorganizations acre-feet	:::	:::	113,908	113,908	3 46,263	7 56,692	8,617	
32	To drainage basin numberD. E. No			110,700	(4)	(5)	(6)	(7)	
33 34	Delivered for use in the basinorganizations acre-feet	12 60,967	:::	38 459,538	25 164,259	14 228,696	6 66,583	12 52,096	
35 36	To farm irrigation water usersorganizations acre-feet	12 58,067		38 459,227	25 164,168	14 228,501	6 66,558	12 51,752	
37 38	To residential water usersorganizations acre-feet	2,900		311	2 91	3 195	1 25	2 344	:::
39 40	For other useorganizations acre-feet	:::			:				
41 42	Delivered to other impation organizations	8,732		6 80,603	3 69,475	2 10,216	1 912	1 1,744	
43	Average delivery of irrigation water per acre irrigated as reported by organizationsacre-feet	1.9		3.0	4.1	2.6	2.3	2.7	
44	NEW CAPITAL INVESTMENT, 1950-1959 Expanditures for additional new works and equipment for irrigation and drafunge, Jan. 1, 1950-Dec. 31, 1959	10 59,545	•••	35 633,032	24 334,695	12 202,097	5 96,240	14 127,600	

132,599 acre-feet from D. B. No. IV-E-2. 229,047 acre-feet from D. B. No. IV-E-5c, 46,263 acre-feet from D. B. No. IV-E-5b. 327,645 acre-feet from D. B. No. IV-E-5c. 40,065 acre-feet to D. B. No. III-D-3g, 266,263 acre-feet to D. B. No. IV-E-5a. 527,645 acre-feet to D. B. No. IV-E-5a. 527,645 acre-feet to D. B. No. IV-E-5a. 527,645 acre-feet to D. B. No. IV-E-5a. 527,645 acre-feet to D. B. No. IV-E-5a. 527,645 acre-feet to D. B. No. IV-E-5a. 527,645 acre-feet to D. B. No. IV-E-5a. 527,645 acre-feet to D. B. No. IV-E-5a. 527,645 acre-feet to D. B. No. IV-E-5a. 527,645 acre-feet to D. B. No. IV-E-5a. 527,645 acre-feet to D. B. No. IV-E-5a. 527,645 acre-feet to D. B. No. IV-E-5a. 527,645 acre-feet from D. B. No. IV-E-5a. 527,645 acre-fee

State Table 2.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION. BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950

_							
_	ltem (For definitions and explanations, see text)	Utah, total	Great Salt Lake Basin excluding Bear River	Sevier River, Snake Valley, Escalante River and Shoal Creek, Beaver River, Little Salt Lake, and Coal Creek	Bear River	Colorado River above and below Lees Ferry excluding Cila, Green, and Cunnison Rivers	Green River
			(III-D 1-3)	(III-D 4-9)	(III-E)	(IV-B and IV-D)	(IV-E)
1 2	Irrigation organizations, total numberorganizations 1959	984 1,058	420 450	256 282	140 140	88 100	79 84
3	Area irrigated as reported by organizationsacres 1959	1,109,620 1,083,250	347,251 343,757	258,960 291,260	188,996 173,962	48,760 50,944	261,373 218,942
5	Farm water users served directlywater users 1959	43,001	20,829	8,443	6,707	2,074	4,897
6	Total water conveyedacre-feet 1959	4,205,811	1,620,542	785,010	679,433	198,166	1,033,180
	TYPE OF ORGANIZATION						
7 8 9	Unincorporatedorganizations 1959 1949 Farm area irrigated directlyacres 1959	316 406 77,985	113 167 19,541	95 117 22,788	47 51 22,972	36 37 5,738	21 29 6,376
10	Farm water users served directlywater users 1959 Total water conveyedacre-feet 1959	2,442 262,193	964 74,982	619 77,876	517 60,962	220 21,636	103 25,161
12 13	Incorporatedorganizations 1959 1949	651 634	294 275	160 163 231,972	91 88 (D)	51 58 (D)	57 52 192,692
14 15	Farm area irrigated directlyacres 1959 Farm water users served directlywater users 1959	912,058 36,345 3,296,892	310,380 17,383 1,407,060	7,759 702,514	(D) (D)	(D) (D)	4,076 739,578
16	Total water conveyedacre-feet 1959 Districtorganizations 1959	3,290,492	6	1	1		
18 19 20	1949 Farm area irrigated directlyacres 1959 Farm water users served	5 20,167	12,467	(D)	(D)	:::	
21	directlywater users 1959 Total water conveyedacre-feet 1959	1,984 75,753	1,759 63,233	(D)	(D) (D)	:::	:::
22 23 24	U.S. Bureau of Reclamation; projects and stor- age systems operated by bureauorganizations 1959 Farm area irrigated directlyacres 1959	1 1 1,030	1 1 1,030			:::	
25	Farm water users served directly	47 29,414	47 29,414				:::
27 28	U. S. Bureau of Reclamation, operated by water users	13 10	8 NA	2 NA	2 NA	. NA	3 NA
29 30	Farm area irrigated directlyacres 1959 Farm water users served	36,279	25,167	(D) (D)	(D) (D)		
31	directlywater usera 1959 Total water conveyedacre-feet 1959	1,603 275,113	1,204 228,246	(D)	(D)	:::	125,896
32 33 34	U. S. Bureau of Indian Affairsorganizations 1959 1949 Farm area irrigated directlyacres 1959	2 3 62,528	223	:::		2	1 1 62,305
35 36	Farm water users served directlywater users 1959 Total water conveyedacre-feet 1959	726 269,110	8 669	:::		:::	718 268,441
37 38	Commercialorganizations 1959	1 2	1 1		1	1	:::
39 40	Farm area irrigated directlyacres 1959	(D)	(D)		(D)		
41	Total water conveyedacre-feet 1959	(D)	(D)		(D)	•••	
42 43 44	1949 Farm area irrigated directlyacres 1959					:::	:
45	directlywater users 1959				:::	:::	:::
47 48	1949	5 7] 3	2		1 (D)	
49 50	Farm water users served directlywater users 1959	(D) (D) (D)	(D) (D) (D)			(D)	
51	Total water conveyedacre-feet 1959		1			1	

D Data not shown to avoid disclosure of information for individual organizations. NA Not available.

State Table 2.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Continued

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	Item (For definitions and explanations, see text)	Utah, total	Great Salt Lake Basin excluding Bear River	Sevier River, Snake Valley, Escalante River and Shoal Creek, Beaver River, Little Salt Lake, and Coal Creek	Bear River	Colorado River above and below Lees Ferry excluding Gila, Green, and Gunniscn Rivers	Green River
			(III-D 1-3)	(III-D 4-9)	(III-E)	(IV-B and IV-D)	(IV-E)
	TYPE OF SERVICE, 1959						
1 2 3 4	All water directly from surface and ground water sources. organizations. Total water conveyed acre-feet. Water delivered acre-feet. To farm and residential	796 3,073,998 2,640,664	307 1,114,777 974,401	237 703,816 577,430	98 576,827 494,268	83 187,015 164,347	69 602,083 426,552
5	users onlyorganizations	757 1,790,347	289 618,135	228 462,899	93 220,881	80 116,008	63 368,758
6	To farm and residential users and other irrigation organizationsorganizations	33	16	8	4	3	3
8	Water to farm and residential usersacre-feet Water to other irrigation	424,341	137,431	45,708	179,971	39,238	21,993
9	organizationsacre-feet To other irrigation organizations	276,298	102,680	68,723	83,916	9,101	11,878
10	only	5 149,678	2 116,155	1 100	1 9,500		2 23,923
11	Part of water from other	75	55	10	,	2	,
12 13	organizationsorganizationsorganizations Total water conveyedacre-feet From surface and ground water	768 , 366	380,217	12,653	11,830	3,881	359,785
14	sourcesacre-feet	573,031	212,386	10,447	8,130	2,050	340,018
15	organizationsacre-feet Water deliveredacre-feet	195,335 694,328	167,831 318,873	2,206 10,591	3,700 9,006	1,831 3,473	19,767 352,385
16	To farm and residential users onlyorganizations	65	46	10	4	2	3
17	acre-feet To farm and residential users and other	268,719	161,705	10,591	9,006	3,473	83,944
19	irrigation organizationsorganizations Water to farm and residential	9	88,884				213,163
20	usersacre-feet Water to other irrigation organizationsacre-feet	302,047 106,374	51,096				55,278
21	To other irrigation organizations onlyorganizations	100,374	31,050				
22	acre-feet	17,188	17,188				
23 24 25 26	All of water from other organizations	107 363,447 311,423	54 125,548 117,879	7 68,541 52,644	38 90,776 73,134	3 7,270 7,270	71,312 60,496
27	users onlyorganizations acre-feet	103 300,033	51 109,108	50,025	38 73,134	7,270	5 60,496
28	To farm and residential users and other irrigation organizationsorganizations Water to farm residential	2	1	1			
30	usersacre-feet Water to other irrigation	3,206	2,511	695			
31	organizationsacre-feet To other irrigation organizations	2,632	708	1,924			
32	onlyorganizations	2 5 , 552	2 5,552	:::	:::	:::	:::
33	No water conveyedorganizations	6	4	2			1
	WATER FROM OTHER SOURCES						
34 35 36 37 38 39	Organizations reporting NO water from other sources used on land served by the organization	843 1,033,131 883,664 2,425,877 2.7	362 364,686 338,635 1,092,765 3.2	197 265,823 199,666 451,067 2.3	133 213,497 195,992 476,252 2.4	86 68,410 48,260 154,994 3.2	63 157,361 138,487 408,124 2.9
40 41 42	sources used on land served by the organizations	123 294,360 251,055 555,982	46 50,074 45,991 87,264	56 96,158 60,144 104,555	6 15,846 15,024 20,420	2 1,590 560 1,625	12 130,412 129,196 341,880
43	acre-feet per acre	2.2	1.9	1.7	1.4	2.9	2.6

State Table 2.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Continued

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	Item (For definitions and explanations, see text)	Utah, total	Great Salt Lake Basin excluding Bear River	Sevier River, Snake Valley, Escalante River and Shoal Creek, Beaver River, Little Salt Lake, and Coal Creek	Bear River	Colorado River above and below Lees Ferry excluding Gila, Green, and Gunnison Rivers	Green River
			(III-D 1-3)	(III-D 4-9)	(III-E)	(IV-B and IV-D)	(IV-E)
1 2 3 4 5 5 6 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	WATER DELIVERED PER ACRE Crymisations reporting 80 water from other course used on same land: 0.1 to 0.9 acre-feet per acre organizations acres irrigated. 1.0 to 1.9 acre-feet per acre organizations 2.0 to 2.9 acre-feet per acre organizations 3.0 to 3.9 acre-feet per acre organizations 4.0 to 4.9 acre-feet per acre organizations 5.0 to 5.9 acre-feet per acre organizations 6.0 to 6.9 acre-feet per acre organizations 6.0 to 6.9 acre-feet per acre organizations 7.0 to 7.9 acre-feet per acre organizations acres irrigated. 8.0 to 9.9 acre-feet per acre organizations acres irrigated. 10.0 or more acre-feet per acre organizations acres irrigated.	53 68,354 162 242,563 219 9 252,966 1888 130,228 101 103,393 22,837 42,565 16 4,495 13 14,947 5	13 10,391 50 45,155 96 108,452 75,841 55,841 13,767 14,479 6 6 867 8,991 1,294	22 22,167 54,81,829 44,513 44,513 32,185 11,604 4 2,117 430 33 3,191 	100 22,626 31 36,917 42 72,828 36 26,981 8,35,148 39 39 11 212 2 7990	5 6,635 8 4,437 20 9,077 22 19,001 5 5 775 3,986 4 1,206 2,2,655 	2 3,535 1773,585 20,538 4,800 3,653 5,528 9 25,866 2,222
21 22 23 24 25 26 27 28 29 30 31 32 33 34 35	Size of organization (number of farm	17 134, 330 264, 1,593 286 4,909 9,373 7,4 12,558 31 14,662	111 555 1300 1100 643 11736 22 22 23,657 3,6716 6,716 17 9,249	3 40 101 77 476 66 1,140 2,660 18 2,951 1,149 	1 10 25 27 168 6 6 1,29 4,24 1,210 10 1,552 6 3,062	 16 40 26 163 33 39 1 20 1,053 3 426 	4 10 26 21 122 37 37 37 44 792 5 913 6 2,800
36 37 38 39 40 41 42 43 44 45 46 47 48 49 50	Selve directly to farms	17 20, 29,845 29,845 170,933 26,646,367 150 794,121 42,676,074 11 504,174 350,992	111 922 13,564 1337 75,379 102 176,033 66,033 28,680 17,262,865 194,206	3 64 8,651 79 43,162 65 117,814 119,661 12,870 172,870	1 1 3,160 37 25,641 46 77,235 30,339,778 5 82,651 137,543 30,658	20 2,907 28 16,418 33 54,987 5,701 2 46,806	4 1,013 1,44 8,417 20 39,618 21 112,488 9 127,582 4 247,866 1213,043
51 52 53 54 55 56 57 58 59 60 61 62 63 64 65	Size of organisation (acre-feet of water conveyed): None	6 159 24,759 27,779 165,271 280 503,339 976,563 891,891 22 1,177,470 498,441	4 65 10,031 126 73,905 117 207,340 411,965 21 333,973 11 596,137 1 230,000	2 55 7,721 76 42,662 63 113,654 22,014 4 229,128 179,831	14, 2,290 21,015, 49 86,825, 37 194,253 92,550 82,096 1230,000	 19 3,526 26 16,770 30 52,933 9 9 39,600 11 124,052 	1 5 1,105 4,8,977 19 39,568 22 125,273 12,002,509 374,43,41 268,441

IRRIGATION OF AGRICULTURAL LANDS

State Table 3.-LAND IRRIGATED BY SOURCE OF WATER, BY DRAINAGE BASINS: CENSUS OF 1959

							Sevier River direct, Snake
	Item (For definitions and explanations, see text)	Utah, total	Bear River	Green River	Colorado River excluding Gila, Green, and Gumnison Rivers	Great Salt Lake Basin excluding Bear River	Valley, Escalante River and Shoal Creek, Beaver River, Little Salt Lake, and Coal Creek
			(III-E)	(IV-E)	(IV-B and IV-D)	(III-D 1-3)	(III-D 4-9)
1	Total acres irrigatedfarms reporting	15,701	2,449	2,245	1,044	6,728	3,189
2	scres	1,061,683	194,920	216,586	52,976	320,156	272,045
3	Acres irrigated by sprinklersfarms reporting	409	194	12	'n	167	25
4	acres	18,421	9,636	544	298	6,131	1,812
5	Sprinklers onlyfarms reporting	118	39	3	2	65	9
6	acres	6,438	2,682	31	14	2,865	846
	LAND IRRIGATED, BY SOURCE OF WATER TO INDIVIDUAL FARMS, 1959						
7	Ground water sources on farmfarms reporting	1,667	140	43	119	678	676
8	scres	113,417	9,730	3,072	7,775	28,897	62,993
9	Ground water sources on farm only farms reporting	689	33	10	51	273	319
10	acres	61,165	3,478	685	3,138	14,786	38,841
11	Surface sources on farmfarms reporting	1,145	218	164	131	428	189
12	acres	88,502	17,775	15,330	8,741	25,768	19,007
13	Surface sources on farm onlyfarms reporting	519	74	81	94	178	81
14	acres	50,387	7,048	10,440	5,855	15,713	10,339
15	Irrigation organization sourcesfarms reporting	14,428	2,329	2,152	892	6,242	2,784
16	ccres	859,764	167,415	198,184	36,460	265,491	190,045
17	Irrigation organization sourcea						
2.0	onlyfarms reporting	13,038	2,118	2,042	802	5,687	2,367
18 19	Both farm ground water acurces	760,042	142,392	187,571	32,289	236,738	159,369
19	and surface sources	64	13	2	7	35	5
20	acres	8,519	1,331	364	1,574	3,474	443
21	Both irrigstion organization and farm ground water or farm surface sourcesfarms reporting	2 002			90	555	417
22	water or tarm surface sourcestarms reporting	1,391 181,570	40,671	110 17,526	10,120	49,445	63,053
	dolouti	161,570	40,071	17,520	10,120	49,440	0,055

				Utah, total			
Item (For definitions and explanations, see text)		Mit	ual		U. S. Bureau	of Reclamation	Commercial.
(FOT ue: Int close and explanations, see sexy)	All types	Unincorporated	Incorporated	District	Projects and storage systems operated by bureau	Operated by water users	Indian, State, city, and other
Irrigation organizationsorganizations 1959 1949 Service area, 1959:	984 1,058	316 406	651 634	8 5	1	13 10	8 12
Area served, as reported by organizationsacres	1,300,483	98,017	1,080,017	23,031	1,030	41,082	98,388
Area irrigated, as reported by organizationsacres	1,109,620	77,985	912,058	20,167	1,030	36,279	98,380
Water users served, 1959, totalwater users	90.952	5,033 2,442	70,614	9,253	47	2,997	6,005
Farm irrigation water users	43,001 47,519 432	2,442 2,589 2	36,345 33,844 425	1,984 7,265 4	47	1,603 1,387 7	2,183 3,821 1
TYPE OF SERVICE, 1959							
All water directly from surface and ground water sources	796 3,073,998 2,640,664	267 201,833 176,404	520 2,582,784 2,220,235	5,039 4,551	29,414 10,532	249,325 213,645	254,928 228,942
onlyorganizations	757 1,790,347	267 176,404	485 1,602,711	4,551	:::	64,067	6,681
To farm and residential users and other irrigation organizationsorganizations Water to farm and residential	33		29		1		3
users	424,341		274,559		3,089		146,693
organizations	276,298		193,287		7,443		75,568
onlyorganizations acre-feet	149,678	:::	149,678	:::	:::	149,578	:::
Part of water from other organizations	75 768,3 6 6	10 10,420	61 427,995	43,320	:::	25,788	286,63 1
sources	573,031 195,335 694,328	7,402 3,018 8,563	277,619 150,376 382,391	17,303 26,017 17,745		871 24,917 1,966	270,707 15,924 285,629
onlyorganizations acre-feet	65 268,719	10 8,563	54 244,377	15,779	:::		***
To farm and residential users and other irrigation organizationsorganizations Water to farm and residential	9		7	1		1	1
water to other irrigation	302,047		88,390	494		494	213,163
organizationsacre-feet To other irrigation organizations	106,374		49,624	1,472		1,472	55,278
onlyorganizations acre-feet	17,188		:::	:::	:::		17,188
All of water from other organizationsorganizations Total water conveyed	107 363,447 311,423	38 49,940 41,696	286,113 246,492	27,394 23,235	:::		:::
onlyorganizations acre-feet	103 300,033	37 40,323	62 236,475	23,235	:::		:::
To farm and residential users and other irrigation organizationsorganizations	2		2				
Water to farm and residential usersacre-feet	3,206		3,206				
Water to other irrigation organizationsacre-feet	2,632		2,632				
To other irrigation organizations only organizations	2 5,552	1 272	4,179				
No water conveyedorganizations	5,352	1,373	4,179	:::	:::	2	:::
WATER FROM OTHER SOURCES Organizations reporting no water from other sources used on the land served by the							
organizationorganizations acres aerwed sores irrigated water delivered to farms (acre-feet) acre-feet per sore	843 1,033,131 883,664 2,425,877 2,7	273 83,025 66,076 187,929 2,8	558 895,769 766,123 2,058,114 2,7	7 18,031 15,167 32,148 2,1		7 41,082 36,279 60,825	36,306 36,298 147,686 4.1
Organizations reporting water from other sources used on land served by the							
organizationorganizations acrea served acres irrigated water delivered to farms (acre-feet)	123 294,360 251,055 555,982	41 15,432 12,334 27,438	79 210,593 170,386 308,545	5,000 5,000 3,867	1,030 1,030 3,089		62,305 62,305 213,043
acre-feet per acre NEW CAPITAL INVESTMENT, 1950-1959 Expenditures for additional new works and	2.2	2.2	1.8	0.8	3.0	··	3.4
equipment for irrigation and drainage, Jamuary 1, 1950-December 31, 1959organizations By U. S. B. R	564 30,555,996 7,790,263	141 648,186	409 12,355,996 6,497,794	415,383	18,200,000	10 12,355,996 241,425	228,900

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

				Utah, total			
Item (For definitions and explanations, see text)		Mus	tual		U. S. Bureau	of Reclamation	Commercial,
	All types	Unincorporated *	Incorporated	District	Projects and storage systems operated by bureau	Operated by water users	Indian, State, city, and other
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959							
Total entering conveyance systemsorganizations acre-feet	978 3,648,089	315 210,035	646 2,860,663	8 22,342	1 29,414	11 250,196	525,635
From another drainage basinorganizations acre-feet	11 91,394	1 800	9 89,925				1 669
From drainage basin		•••		:::	:::	:::	
From sources within basinorganizations	863 3,556,695	277 209,235	574 2,770,738	22,342	29,414	11 250,196	7 524,966
Surface waterorganizations acre-feet	754 3,401,225	217 162,180	526 2,664,948	21,471	28,200	250,196 11 249,325	524,426
Ground waterorganizations acre-feet	152 155,470	67 47,055	105,790	1 871	1 1,214	249,325 1 871	524,426 1 540
From other organizations in the basin organizations receiving	179	47	124	6		1	2
Total leaving conveyance systemsorganizations acre-feet	557,722 978	52,158 315	436,229	53,411		24,917	15,924
Conveyance loss in basinorganizations	3,648,089 808	260,820 249	2,897,492 546	74,281	21,971	124,063	393,525 6
acre-feet	466,721	35,228	398,832	5,200	3,033	12,960	24,428
Conveyed to another drainage basinorganizations acre-feet To drainage basin number	13,355		13,355	:::	:::	:::	•••
Delivered for use in the basinorganizations	970	314	640	 g			
acre-feet To farm irrigation water usersorganizations	3,168,013 965	225,592 314	2,485,305	69,081	18,938	111,103	369,097
acre-feet To domestic water usersorganizations	2,956,192 245	214,492 21	2,342,369	36,015	3,089	60,825	360,227
acre-feet For other use	132,501 30 79,320	10,798 1 302	107,349 25 35,587	8,044 2 25,022	15,849	3,736 3 46,542	6,310 1 2,560
Delivered to other irrigation	,		,	,			2,300
organizationsorganizations delivering acre-feet	52 557,722	1 1,373	44 399,400	1,472	7,443	5 151,050	148,034
SIZE OF ORGANIZATION, 1959							
Size of organization (number of farm	19 134 264 284 178 74 31	3 106 146 51 9 1	14 28 117 230 166 72 24	1 1 2 1 3	 1	6 1 1 3 2	2 2
Size of organization (acre-feet of water delivered directly to farms):	17 204 292 266 150 42 11	2 119 130 57 8 8	13 84 158 208 136 41 11	3 4 1	 1	6 2 1 2 1	2 1 1 1 1
Size of organization (scre-feet of mater conveyed): mater conveyed): 1 to 299 acre-feet organizations 300 to 999 acre-feet organizations 1,000 to 2,999 acre-feet organizations 3,000 to 9,999 acre-feet organizations 10,000 to 9,999 acre-feet organizations 30,000 to 99,999 acre-feet organizations 30,000 to 99,999 acre-feet organizations 10,000 to 99,999 acre-feet organizations 30,000 to 99,999 acre-feet organizations 10,000 to 99,999 acre-feet organizations	6 159 277 280 183 55 22 2	1 95 141 65 14 	5 64 134 214 162 50 22	 1 5 2 	::: ::: ::: :::	2 1 1 2 4 3	 1 1 2 2 2

	Esc	Bonneville B alante River and	ssin (excluding B Shoal Creek, Beav	ear River), Sevi er River, Little	er River direct, S Salt Lake, and Co	nake Valley, al Creek (III-D	4=9)
Item		Mut	ual		U. S. Bureau	of Reclamation	Commercial.
(For definitions and explanations, see text)	All types	Unincorporated	Incorporated	District	Projects and storage systems operated by bureau	Operated by water users	Indian, State, city, and other
Irrigation organizationsorganizations 1959	256 282	95 117	160 163	1		2 NA	
Service area, 1959: Area served, as reported by organizations	360,641	31,774	324,667	(D)		(D)	
by organizationsacres	258,960	22,788	231,972	(D)		(D)	
Water users served, 1959, total water users. Farm irrigation water users water users. Residential water users water users. Other water users water users.	14,498 8,443 5,693 362	2,310 619 1,690 1	12,123 7,759 4,003 361	(D) (D)	:::	(D) (D) (D)	
TYPE OF SERVICE, 1959		'					
All water directly from surface and ground water sources organizations. Total water conveyed sore-feet. Water delivered sore-feet to farm and residential users only organizations.	237 703,816 577,430 228	87 69,296 61,177 87	149 629,900 512,095	(D) (D)		(D) (D)	
acre-feet	462,899	61,177	397,564	(D)		(D)	
To farm and residential users and other irrigation organizationsorganizations Water to farm and residential	8		8				
water to other irrigation	45,708		45,708				
organizationsacre-feet To other irrigation organizations onlyorganizations	68,723		68,723				
acre-feet	100		100				
Part of water from other organizationsorganizations Total water conveyedacre-feet From surface and ground water	10 12,653	7,500	5,153				::
sourcesacre-feet	10,447	5,682	4,765 388				
From other irrigation organizationsacre-feet Water dellveredacre-feet To farm and residential users onlyorganizations	2,206 10,591	1,818 6,180	4,411		:::		::
acre-feet	10,591	6,180	4,411				
To farm and residential users and other irrigation organizationsorganizations Water to farm and residential	•••						
users							
To other irrigation organizations onlyorganizations							
acre-feet							
All of water from other organizationsorganizations Total water conveyed	7 68,541 52,644	1,080 1,026	67,461 51,618				::
onlyorganizations	6 50,025	1,026	5 48,999				
To farm and residential users and other irrigation organizationsorganizations	1		1				
Water to farm and residential usersacre-feet	695		695				
Water to other irrigation organizations	1,924		1,924				
onlyorganizations							
No water conveyedorganizations				***	:::	:::	::
WATER FROM OTHER SOURCES Organizations reporting no water from other sources used on the land served by the							
organizationorganizations scres served acres irrigated water delivered to farms (acre-feet) acre-feet per acre	197 265,823 199,666 451,067 2.3	68 22,456 15,726 47,069 3.0	128 239,167 179,740 399,840 2,2	(D) (D) (D) (D)		(D) (D) (D) (D)	:
Organizations reporting water from other sources used on land served by the organization	56 96,158 60,144 104,555	27 9,318 7,062 14,901	29 86,840 53,082 89,654				
acre-feet per acre	1.7	2.1	1.7			***	
NEW CAPITAL INVESTMENT, 1950-1959 Expenditures for additional new works and equipment for irrigation and drainage, January 1, 1950-becamber 31, 1959	153 2,380,038	45 300,673	107 2,078,715	1 (D)		1 (D)	

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

	Esc	Bonneville B alante River and	asin (excluding Be Shoal Creek, Beave	ear River), Sevie er River, Little	r River direct, Sr Salt Lake, and Cos	ake Valley, 1 Creek (III-D 4	9)
Item (For definitions and explanations, see text)		Mut	ual		U. S. Bureau o	f Reclamation	Commercial.
(For definitions and explanations, see west)	All types	Unincorporated	Incorporated	District	Projects and storage systems operated by bureau	Operated by water users	Indian, State, city, and other
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959							
Total entering conveyance systemsorganizations acrc-feet	254 714,263	95 74,978	158 634,665	(D)	:::	(D)	::
From another drainage basinorganizations acre-feet From drainage basin	15,330 		15,330	• • • • • • • • • • • • • • • • • • • •		•••	
From sources within basinorganizations	246 698,933	94 74,978	151 619,335	1 (D)		2 (D)	:
acre-feet Surface waterorganizations acre-feet	200 642,905	49,610	139 588,675	1 (D)	:::	(D) (D)	:
Ground waterorganizations acre-feet	65 56,028	37 25,368	28 30,660				:
From other organizations in the basin organizations receiving acre-feet	17 70,747	8 2,898	9 67,849	•••	:::		::
Total leaving conveyance systemsorganizations acre-feet	254 714,263	95 77,876	158 631,767	1 (D)	:::	(D)	::
Conveyance loss in basinorganizations acre-feet	221 138,101	78 9,191	142 128,448	(D)	:::	(D)	::
Conveyed to another drainage basinorganizations acre-feet	2,920	:::	2,920		:::		
To drainage basin numberD. B. No Delivered for use in the basinorganizations	253	95	157	1		2	
acre-feet To farm irrigation water usersorganizations	573,242 253	68,685 95	500,399 157	(D)		(D) 2	:
acre-feet To domestic water usersorganizations	553,262 46	61,970	487,134 42	(D)	:::	(D) 2	:
acre-feet For other useorganizations acre-feet	16,656 6 3,324	6,413 1 302	10,243 5 3,022	•••		(D)	:
Velivered to other strigation organizations organizations delivering. acre-feet	10 70,747		10 70,747	•••			:
SIZE OF ORGANIZATION, 1959							
Size of organization (number of farm irrigation water users): None:::	3 40 77 66 49 18 3	33 53 6 3	3 7 24 60 45 18 3	(D) (D) (D) (D) (D) (D)		(D) (D) (D) (D) (D) (D) (D)	
Size of organization (acre-feet of water delivered directly to farms): None organizations (Note of the organizations) 1 to 299 acre-feet organizations (300 to 999 acre-feet organizations) 1,000 to 2,999 acre-feet organizations 1,000 to 2,999 acre-feet organizations 10,000 to 2,999 acre-feet organizations 30,000 to 99,999 acre-feet organizations 30,000 to 99,999 acre-feet organizations 100,000 to organizations	3 64 79 65 34 10	38 39 16 2	3 26 40 49 31 10	(D) (D) (D) (D) (D) (D)	:::	(D) (D) (D) (D) (D) (D) (D)	
Size of organization (acre-feet of water conveyed): organizations 1 to 299 acre-feet organizations 100 to 999 acre-feet organizations 1,000 to 2,999 acre-feet organizations 1,000 to 9,999 acre-feet organizations 1,000 to 9,999 acre-feet organizations 10,000 to 9,999 acre-feet organizations 10,000 to 9,999 acre-feet organizations 10,000 to 99,999 acre-feet organizations	2 55 76 63 42 14	31 44 14 6 	2 24 32 49 35 14 4	(D) (D) (D) (D) (D) (D)	::: ::: ::: :::	(D) (D) (D) (D) (D) (D) (D)	

 $^{{\}tt D}$ Data not shown to avoid disclosure of information for individual organizations. NA Not available.

1		Bonneville : Southwest Great	Basin (excluding Salt Lake Basin,	Bear River), Northand Southeast Gr	hwest Great Salt I reat Salt Lake Basi	ake Basin, In (III-D 1-3)	
Item (For definitions and explanations, see tex+)		Mut	ual		U. S. Bureau o	f Reclamation	Commercial.
(FOR delinitions and explanations, see sex.	All types	Unincorporated	Incorporated	District	Projects and storage systems operated by bureau	Operated by water users	Indian, State, city, and other
Irrigation organizationsorganizations 1959	420 450	113 167	294 275	6 3	1 1	8 NA	
Service area, 1959: Area served, as reported by organizations	377,385	23,827	333,364	15,331	1,030	26,577	3,83
by organizationsacres	347,251	19,541	310,380	12,467	1,030	25,167	3,83
Water users served, 1959, total. water users. Farm irrigation water users. water users. Residential water users. water users. Other water users. we rusers.	57,382 20,829 36,489 64	1,747 964 782 1	42,382 17,383 24,939 60	9,027 1,759 7,265 3	47	2,128 1,204 917 7	4,17 67 3,50
TYPE OF SERVICE, 1959							
All water directly from surface and ground water sources	307 1,114,777 974,401	95 64,019 56,722	205 993,262 881,385	1 419 393	29,414 10,532	202,458 170,802	27,66 25,36
onlyorganizations	289 618,135	95 56,722	191 555,119	1 393	[:::]	54,647	5,90
To farm and residential users and other irrigation organizationsorganizations Water to farm and residential	16		12		1		
water to other irrigation	137,431		122,134		3,089		12,20
organizationsacre-feet To other irrigation organizations	102,680		87,977		7,443		7,26
onlyacre-feet	116,155	:::	116,155	:::	:::	2 116,155	::
Part of water from other organizations Total water conveyedacre-feet From surface and ground water	55 380,217	1,114	51 317,593	2 43,320	:::	1 25,788	
sources	212,386 167,831 318,873	720 394 814	183,458 134,135 283,126	17,303 26,017 17,745		24,917 1,966	
onlyorganizations acre-feet	46 161,705	814	145,112	15,779	:::	:::	
To farm and residential users and other irrigation organizationsorganizations Water to farm and residential	8		7	1 494		1 494	
users	88,884 51,096		88,390 49,624	1,472		1,472	
To other irrigation organizations onlyorganizations	1						17,18
acre-feet All of water from other organizationsorganizations	17,188	16	35				17,1
Total water conveyedacre-feet Water deliveredacre-feet To farm and residential users	125,548 117,879	9,849 9,110	96,205 90,434	19,494 18,335		:::	:
onlyorganizations	109,108	7,737	83,036	18,335	:::	:::	
To farm and residential users and other irrigation organizationsorganizations Water to farm and residential	1		1				
usersacre-feet Water to other irrigation	2,511		2,511				
organizationsacre-feet To other irrigation organizations	708		708				
onlyorganizations acre-feet No water conveyedorganizations	5,552 4	1,373	4,179		:::	:::	
WATER FROM OTHER SOURCES Organizations reporting no water from other sources used on the land served by the	362	104	249			4	
organizationorganizations acres served acres irrigated water delivered to farms (acre-feet) acre-feer acre	364,686 338,635 1,092,765 3.2	19,804 15,968 52,486 3.3	298,423 279,072 870,183 3.1	10,331 7,467 23,090 3,1		26,577 25,167 52,291 2.7	36,12 36,12 147,00
Organizations reporting water from other sources used on land served by the organization	46 50,074	7	37 40,021	5,000	1,030		
acres served acres irrigated water delivered to farms (acre-feet) acre-feet per acre	90,074 45,991 87,264 1.9	4,023 3,573 9,427 2.6	36,388 70,881 1.9	5,000 3,867 0.8	1,030 3,089 3.0	:::	
NEW CAPITAL INVESTMENT, 1950-1959 Expenditures for additional new works and							
Expenitures for additional new worsa am equipment for irrigation and drainage, January 1, 1950-December 31, 1959	203 30,555,996 2,800,507	39 83,219	154 12,355,996 2,101,855	413,733	18,200,000	12,355,996 86,748	201,70

		Bonneville Southwest Grea	Basin (excluding t Salt Lake Basin	Bear River), Nor , and Southeast G	thwast Great Salt reat Salt Lake Bas	Lake Basin, sin (III-D 1-3)	
Item (Formation and Inches)		Mut			1	of Reclamation	Commental
(For definitions and explanations, see text)	All types	Unincorporated	Incorporated	District	Projects and storage systems onerated by bureau	Operated by water users	Commercial, Indian, State, city, and other
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959							
Total entering conveyance systemsorganizations acre-feet	416 1,327,163	112 64,739	291 1,176,720	17,722	29,414	203,329	6 38,568
From another drainage basinorganizations acre-feet From drainage basin	115,862		111,603			101,973	4,259
From sources within basinorganizations	359	96	255	3	1	6	4
acre-feet Surface waterorganizations	1,211,301	64,739 87	1,065,117	17,722	29,414	101,356	34,309
Ground waterorganizations	1,162,637	53,821 11	1,029,996	16,851	28,200	100,485	33,769
acre-feet	48,664	10,918	35,121	871	1,214	871	540
From other organizations in the basin organizations receiving acre-fect	109 293,379	17 10,243	86 230,340	45,511	:::	1 24,917	7,285
Total leaving conveyance systemsorganizations acre-feet	416 1,327,163	73,609	291 1,148,417	61,761	21,971	110,619	21,405
Conveyance loss in basinorganizations acre-feet	326 138,593	84 8,336	232 120 , 990	2,938	3,033	5 8,936	5 3,296
Conveyed to another drainage basinorganizations							
To drainage basin numberD. B. No	•••					:::	:::
Delivered for use in the basinorganizations	413	111	290	6 60 000	1 12 022	101 602	5
To farm irrigation water usersorganizations acre-feet	1,188,570 409 1,038,289	65,273	1,027,427	58,823 6 26,957	18,938 1 3,089	101,683	18,109 4 12,219
To domestic water usersorganizations acre-feet	140	61,913 13 3,360	934,111 120 62,191	26,957 4 8,044		52,291 2 2,850	5,890
For other use	79,485 19 70,796	3,360	17 31,125	23,822	1 15,849	2,850 3 46,542	5,890
Delivered to other iragation organizations delivering acre-feet	29 293 , 379	1,373	23 258 , 643	1 1,472	7,443	3 117,627	3 24,448
SIZE OF ORGANIZATION, 1959							
Size of organization (number of farm trrigation water users). Organizations 1 to 3 water users organizations 4 to 9 water users organizations 30 to 99 water users organizations 30 to 99 water users organizations 100 to 29 water users organizations 30 to 99 water users organizations 300 to 999 water users organizations 1,000 or open users organizations 1,000 or once water users organizations organizations	13 55 110 115 72 38 17	2 43 45 19 3 1	9 12 64 94 67 37 11	1 1 1 	 1	1 1 	2 1 3
Size of organization (acre-feet of water delivered directly to farms):	11 92 131 102 61 17 5	2 52 41 16 2	7 40 87 84 55 16 5	 3 2 1	 1	 1 1 1 1	2 2 1
Size of organization (acre-feet of water conveyed): organizations None. organizations. 1 to 299 acre-feet. organizations. 1,000 to 2,999 acre-feet. organizations. 1,000 to 2,999 acre-feet. organizations. 10,000 to 29,999 acre-feet. organizations. 10,000 to 99,999 acre-feet. organizations. 10,000 to 99,999 acre-feet. organizations. 100,000 to more acre-feet. organizations.	2 65 126 117 75 21 11	1 38 52 20 2	3 27 73 96 68 16	 1 3 2	 	2 1 2 2 3	 1 2 2

NA Not available.

			Be	ar River (III-E)			
Item (For definitions and explanations, see text)		Mat	ıal		U. S. Bureau o	f Reclamation	Commercial,
(For definitions and explanations, see text)	All types	Unincorporated	Incorporated	District	Projects and storage systems operated by bureau	Operated by water users	Indian, State, city, and other
rrigation organizationsorganizations 1959	140 140	47 51	91 88	1	:::	2 NA	
Service area, 1959: Area served, as reported	206,748	23,830	(D)	(D)		(D)	(D
by organizationsacres Area irrigated, as reported	188,996	22,972	(D)	(D)		(D)	(D
by organizationsacres Mater users served, 1959, totalwater users	9,699	565	(D)	(D)		(D)	(D
Farm irrigation water users. water users. Residential water users. water users. Other water users. water users.	6,707 2,986 6	517 48 	(D) (D)	(D)	:::	(D)	(p (p
TYPE OF SERVICE, 1959							
water sources	98 576,827 494,268	26 22,945 19,584	71 (D) (D)			(D) (D)	(D
onlyorganizations acre-feet To farm and residential users and other	93 220,881	26 19,584	(D)	:::		(D)	
irrigation organizationsorganizations Water to farm and residential	4		3				
usersacre-feet	179,971		(D)				(1
Water to other irrigation organizationsacre-feet To other irrigation organizations	83,916		(D)	•••			(I
onlyorganizationsacre-feet	9,500	:::	1 (D)	:::	:::	(D)	::
Part of water from other organizations	11,830	1 750	(D)		:::		:
sourcesacre-feet From other irrigation organizationsacre-feet	8,130 3,700	150 600	(D) (D)		:::		
Water delivered	9,006 4 9,006	671 1 671	(D) 3 (D)				
To farm and residential users and other irrigation organizationsorganizations							
Water to farm and residential usersscre-feet							
Water to other irrigation organizations							
onlyorganizationsorganizations					::::		:
All of water from other organizationsorganizations	38	20	17	(D)	:::		:
Total water conveyed	90,776 73,134 38	20	(D) (D)	(D)			
acre-feet To farm and residential users and other	73,134	29,990	(D)	(D)		•••	
irrigation organizationsorganizations Water to farm and residential	• • •			•••		• • •	
nsersacre-feet Water to other irrigation				•••		•••	
organizationsacre-feet To other irrigation organizations						•••] :
onlyorganizations acre-feet		:::		:::	:::		
No water conveyedorganizations WATER FROM OTHER SOURCES			•••				
Organizations reporting no water from other accuracy used on the land served by the							
organizationorganizations	133 213,497	45 23,454	86 (D)	(D)	:::	(D)	(1
acres irrigated water delivered to farms (acre-feet) acre-feet per acre	195,992 476,252 2.4	22,803 49,824 2,2	(D) (D)	(D) (D)		(D) (D)	I) I) I)
Organizations reporting water from other sources used on land served by the	_	,	ļ ,				İ
organizationorganizations acres served	15,846	816 594	(D) (D)				
acres irrigated water delivered to farms (acre-feet) acre-feet per acre	15,024 20,420 1.4		(D)				
NEW CAPITAL INVESTMENT, 1950-1959 Expenditures for additional new works and							
Expenditures for additional new works and equipment for irrigation and drainage, January 1, 1950-December 31, 1959organizations By U. S. B. R	% 439,125	17 20,415	57 391,960	1 (D)		2 (D)	(1

				Bear River (III-E)		
Item (For definitions and explanations, see text)		Mut	ual		U. S. Bureau o	of Reclamation	Commercial.
(100 dollarson and explanation) for occup	All types	Unincorporated	Incorporated	District	Projects and storage systems operated by bureau	Operated by water users	Indian, State, city, and other
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959							
Total entering conveyance systemsorganizations acre-feet	140 586,017	23,895	91 (D)	(D)	:::	(D)	(D)
From another drainage basinorganizations acre-feet	72,830	1 800	7 (D)	:::	:::		
From drainage basin	97	27	•••		•…		···
From sources within basinorganizations acre-feet Surface waterorganizations	513,187 79	23,095	69 (D) 57			(D)	(D)
Ground waterorganizations	488,213 23	20,801	(D) 17		:::	(D)	(D)
acre-feet	24,974	2,294	(D)			•••	• • • • • • • • • • • • • • • • • • • •
From other organizations in the basin organizations receiving acre-feet	93,416	37,067	(D)	(D)	:::		:::
Total leaving conveyance systemsorganizations acre-feet	140 586,017	47 60,962	91 (D)	(D)	:::	(D)	(D)
Conveyance loss in basinorganizations acre-feet	116 85,620	38 10,717	76 (D)	(D)	:::	(D)	1 (D)
Conveyed to another drainage basinorganizations acre-feet	5 12,205		(D)				1 (D)
To drainage basin number			•••			•••	
Delivered for use in the basinorganizations acre-feet	138 488,192 138	47 50,245 47	89 (D) 89	(D)	:::	(D)	(D)
To farm irrigation water usersorganizations acre-feet To domestic water usersorganizations	465,3% 25	50,132 1	(D) 23	(D)		(D)	(D)
For other use	17,596 5 5,200	113	(D) 3 (D)	(D)	:::	(D)	(D) 1 (D)
	93,416	:::	(D)			(D)	(D)
SIZE OF ORGANIZATION, 1959 Size of organization (number of farm							
one of Organization (namers): Irrigation water users: 1 to 3 water users: 1 to 3 water users: 1 to 9 water users: 2 organizations: 1 to 9 water users: 2 organizations: 10 of 9 water users: 10 to 29 water users: 10 to 29 water users: 10 to 29 water users: 10 to 29 water users: 10 to 29 water users: 10 to 29 water users: 10 to 29 water users: 10 to 29 water users: 10 organizations: 1,000 or more water users: 1,000 or more water u	1 100 27 62 24 100 6	7 7 16 22 2 	(D) (D) (D) (D) (D) (D)	(D) (D) (D) (D) (D) (D)		(D) (D) (D) (D) (D) (D)	(D) (D) (D) (D) (D) (D)
Size of organization (acre-feet of mater delivered directly to farms): None.	1 19 37 46 30 5 1	7 21 16 3 	(D) (D) (D) (D) (D) (D) (D)	(D) (D) (D) (D) (D) (D) (D)		(D) (D) (D) (D) (D) (D) (D)	(D) (D) (D) (D) (D) (D) (D)
Size of organization (acre-feet of water conveyed): None.	14 31 49 37 6 2	7 14 22 4	(D) (D) (D) (D) (D) (D)	(b) (D) (D) (D) (D)	::: ::: ::: :::	(D) (D) (D) (D) (D) (D)	(b) (c) (d) (d) (d) (d) (d)

D Data not shown to avoid disclosure of information for individual organizations.

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		С		ve and below Lees Gunnison Rivers	Ferry, excluding (IV-B and IV-D)		
ltem		Mut	ual		U. S. Bureau o	f Reclamation	Commercial.
(For definitions and explanations, see text)	All types	Unincorporated	Incorporated	District	Projects and storage systems operated by bureau	Operated by water users	Indian, State, city, and other
Irrigation organizationsorganizations 1959	88 100	36 37	51 58		:::	NA.	3
Service area, 1959: Area served, as reported by organizations	69,940	11,193	(D)				(D
by organizationsacres	48,760	5,738 240	(D)				(D
Water users served, 1959, total water users. Farm irrigation water users. water users. Residential water users water users. Other water users water users.	3,158 2,074 1,084	220 20	(B) (B)			:::	(D (D
TYPE OF SERVICE, 1959					1		
All water directly from surface and ground water sources. organizations. Total water conveyed	83 187,015 164,347	35 20,580 17,853	47 (D) (D)	:::			(D
onlyorganizations acre-feet To farm and residential users and other	116,008	17,853	(D)				(D
irrigation organizationsorganizations Water to farm and residential	3	• • • • • • • • • • • • • • • • • • • •	3				
usersacre-feet Water to other irrigation	39,238		(D)				
organizationsacre-feet To other irrigation organizations	9,101		(D)				
onlyacre-feet	***	:::		:::	:::		::
Part of water from other organizationsorganizations Total water conveyedacre-feet From surface and ground water	3,881	1,056	1 (D)	:::		•••	::
sources	2,050 1,831 3,473	850 206 898	(D) (D)		:::		::
onlyorganizations	3,473	1 898	(D)	:::	:::		::
To farm and residential users and other irrigation organizations Water to farm and residential users							
Water to other irrigation organizationsacre-feet To other irrigation organizations							
onlyorganizations				:::	:::		
All of water from other organizationsorganizations Total water conveyed	7,270 7,270		3 (D) (D)				
onlyorganizations acre-feet	7,270	:::	3 (D)		:::	:::	::
To farm and residential users and other irrigation organizations							
usersacre-feet Water to other irrigation				*			
organizationsacre-feet To other irrigation organizations							
onlyorganizations acre-feet No water conveyedorganizations							
WATER FROM OTHER SOURCES Organizations reporting no water from other sources used on the land served by the							
organizationorganizations acres served acres irrigated water delivered to farms (acre-feet) acre-feet per acre	86 68,410 48,260 154,994 3.2	35 11,103 5,678 17,729 3.1	50 (D) (D) (D) (D)			•••	(D (D (D (D (D
Organizations reporting water from other sources used on land served by the organization	2 1,590	1	1		:::		
acres irrigated water delivered to farms (acre-feet) acre-feet per acre	560 1,625 2.9	60 135 2.2	(D) (D) (D)				::
NEW CAPITAL INVESTMENT, 1950-1959 Expenditures for additional new works and equipment for irrigation and drainage, January 1, 1950-becamber 31, 1959	64 1,027,180	198,219	42 827,511	:::	:::	 	

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

		C	Colorado River abo	ove and below Lees d Gunnison Rivers	Ferry, excluding (IV-B and IV-D)		
Item (For definitions and explanations, see text)		Mut	tual		U. S. Bureau o	of Reclamation	Commercial.
(For definitions and explanations, see text)	All types	Unincorporated	Incorporated	District	Projects and storage systems operated by bureau	Operated by water users	Indian, State,
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959							
Total entering conveyance systemsorganizations acre-feet	88 189,065	36 21,430	51 (D)	:::	:::	:::	(D)
From another drainage basinorganizations	1 2,920		1 (D)	:::	:::		:::
From drainage basin, D. B. No	2,720	:::		:::	:::		:::
From sources within basinorganizations	84 186,145	36 21,430	47 (D)				1 (D)
Surface waterorganizations	75 163,082	29 15,696	45 (D)				(D)
Ground waterorganizations	15 23,063	9 5,734	(D)				:::
From other organizations in the basin organizations receiving	5	1	4				
acte-feel Total leaving conveyance systemsorganizations	9,101	206	(D) 51				
acre-feet	189,065	21,636	(D)				(D)
Conveyance loss in basinorganizations acre-feet	74 23,076	28 2,885	45 (D)	:::	:::		(D)
Conveyed to another drainage basinorganizations						•••	
To drainage basin numberD. B. No	• • • • • • • • • • • • • • • • • • • •	:::	:::	:::			
Delivered for use in the basinorganizations acre-feet	88 165,989	36 18,751	51 (D)	:::			(D)
To farm irrigation water usersorganizations	88 156,459	36 17,864	51 (D)				(D)
To domestic water usersorganizations acre-feet	20 9,530	2 887	17 (D)		:::		(D)
For other useorganizations acre-feet					:::		
Delivered to other irrigation organizations delivering acto-feet	3 9,101		3 (D)	:::		•••	
SIZE OF ORGANIZATION, 1959							
Size of organization (number of farm irrigation water users):							
None. organizations. 1 to 3 water users. organizations. 4 to 9 water users organizations.	16	14	(D) (D)	:::			(d)
10 to 29 water usersorganizations	26 23	18 3	(D) (D)		:::		(D) (D) (D) (D)
30 to 99 water usersorganizations 100 to 299 water usersorganizations	20 3	1	(D) (D)	:::			(D) (D)
300 to 999 water usersorganizations 1,000 or more water usersorganizations				:::	:::	:::	:::
Size of organization (acre-feet of water delivered directly to farms):							
Noneorganizations 1 to 299 acre-feetorganizations	20	15	(D)	:::	::: .		(D)
300 to 999 acre-feetorganizations 1,000 to 2,999 acre-feetorganizations	28 33	17 4	(D)	:::			(D)
3,000 to 9,999 acre-feetorganizations 10,000 to 29,999 acre-feetorganizations	5 2		(D) (D)	:::	:::	• • • • • • • • • • • • • • • • • • • •	(D) (D)
30,000 to 99,999 acre-feetorganizations 100,000 or more acre-feetorganizations				:::		:::	
Size of organization (acre-feet of water conveyed):							
Nonsorganizations 1 to 299 acre-feetorganizations	19	14	(Ď)		:::		(D)
300 to 999 acre-feetorganizations 1,000 to 2,999 acre-feetorganizations	26 30	17 5	(a)		:::		(D) (D) (D) (D)
3,000 to 9,999 acre-feetorganizations 10,000 to 29,999 acre-feetorganizations	9 3		(D) (D) (D)				(D) (D)
30,000 to 99,999 acre-feetorganizations 100,000 or more acre-feetorganizations	1		(D)		:::		(D)
organizations	***					•••	

D Data not shown to avoid disclosure of information for individual organizations. NA Not available.

			G	reen River (IV-E)			
Item	-	Mut	ual		U. S. Bureau	of Reclamation	
(For definitions and explanations, see text)	All types	Unincorporated	Incorporated	District	Projects and storage systems operated by bureau	Operated by water users	Commercial, Indian, State, city, and other
Irrigation organizationsorganizations 1959	79 84	21 29	57 52			3	1
Service area, 1959: Area served, as reported by organizationsacres Area irrigated, as reported	280,129	6,678	211,146			NA	62,305
by organizationsacres	261,373	6,376	192,692				62,305
Water users served, 1999, total. water users. Farm irrigation water users. water users. Residential water users. water users. Other water users. water users.	6,164 4,897 1,267	152 103 49	5,276 4,076 1,200			:::	736 718 18
All water directly from surface and ground water sources	69 602,083 426,552 63	20 23,417 19,834	49 578,666 406,718 43			3 125,896 23,923	:::
To farm and residential users and other	368,758	19,834	348,924	•••			
irrigation organizationsorganizations Water to farm and residential usersacre-feet	21,993		21,993				
Water to other irrigation organizationsacre-feet	11,878		11,878				
To other irrigation organizations onlyorganizations acre-feet	2		2			2	
Part of water from other organizations organizations Total water conveyedacre-feet.	23,923 4 359,785		23,923 3 91,344			23,923	1 268,441
From surface and ground water sourcesacre-feet	340,018		80,216				259,802
From other irrigation organizationsacre-feet Water deliveredacre-feet To farm and residential users onlyorganizations	19,767 352,385	:::	11,128 83,944		:::	:::	8,639 268,441
acre-feet To farm and residential users and other	83,944	:::	83,944	***	:::		:::
irrigation organizationsorganizations Water to farm and residential	1						1
usersacre-feet Water to other irrigation organizationsacre-feet	213,163 55,278						213,163 55,278
To other irrigation organizations onlyorganizations							
All of water from other organizations. organizations. Total water conveyed	5 71,312 60,496	1,744 1,570	69,568 58,926				
onlyorganizations acre-feet	5 60,496	1 1,570	58,926				:::
To farm and residential users and other irrigation organizationsorganizations							
Water to farm and residential usersacre-feet Water to other irrigation							
organizationsacre-feet To other irrigation organizations							
onlyorganizations acre-feet	 1	:::	:::			•••	
No water conveyedorganizations WATER FROM OTHER SOURCES	1		1		•••	•••	•••
Organizations reporting no water from other sources used on the land served by the organizationorganizations	63	18	45			•••	
acres served acres irrigated water delivered to farms (acre-feet) acre-feet per acre	157,361 138,487 408,124 2.9	5,773 5,471 19,825 3.6	151,588 133,016 388,299 2.9	•••			
Organizations reporting water from other sources used on land served by the organizations acres served acres frrigated water delivered to farms (acre-feet) acre-feet per scre	130,412 129,196 341,880 2.6	3 905 905 1,554 1.7	8 67,202 65,986 127,283				1 62,305 62,305 213,043 3.4
NEW CAPITAL INVESTMENT, 1950-1959 Expenditures for additional new works and equipment for irrigation and drainage, January 1, 1950-lecember 31, 1959, organizations by U. S. B. R	68 1,141,113	16 43,760	52 1,097,353	: :		3 123,259	

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

				Green River (IV-	Ξ)		
Item (For definitions and explanations, see text)		Mat	usl		U. S. Bureau	of Reclamation	Commercial.
(FOR UELINICIONE MIN EXPLANAVIONE, BUE WAV)	All types	Unincorporated	Incorporated	District	Projects and storage systems operated by bureau	Operated by water users	Indian, State, city, and other
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959							
Total entering conveyance systemsorganizations acre-feet	78 942,101	21 23,417	56 658,882		:::	3 125, 8 96	259,80
From another drainage basinorganizations acre-feet							
From drainage basin,		:::		:::		:::	::
From sources within basinorganizations	73 942,101	20 23,417	52 658,882			3	
Surface waterorganizations	72 940,216	19 21,532	52 658,882	:::	:::	125,896	259,80
Ground waterorganizations acre-feet	1,885	1,885		:::	:::	125,896	259,80
From other organizations in the basin organizations receiving	1,000	1,000				•••	
acre-feel	91,079	1,744	80,696	:::	:::	:::	8,63
Total leaving conveyance systemsorganizations acre-feet	78 942,101	21 25,161	56 703,7 7 7	:::	:::	3 101,973	213,16
Conveyance loss in basinorganizations acre-feet	68 79,969	17 3,757	51 76,212				::
Conveyed to another drainage basinorganizations acre-feet	5		5			2]
To drainage basin number	113,778	:::	113,778	:::	:::	101,973	::
Delivered for use in the basinorganizations	75	21	53				
acre-feet To farm irrigation water usersorganizations	748,354 74	21,404 21	513,787 52	:::		:::	213,16
acre-feet To domestic water usersorganizations	739,120 15	21,379	504,698 13	:::			213,04
acre-feet For other useorgenizations	9,234	25	9,089	:::	:::		12
acre-feet Delivered to other irrigation	•••		•••			•••	
organisations organisations delivering	. 6		5			1	
GTTP DE CEGANTZANTON 3050	91,079		35,801	•••		23,923	55,27
SIZE OF ORGANIZATION, 1959 Size of organization (number of farm							
irrigation water users): Noneorganizations	5	,	4		1 1	3	
1 to 3 water usersorganizations 4 to 9 water usersorganizations	10 21	7	3	:::	:::		:::
10 to 29 water usersorganizations	18	12	9 17	:::			::
30 to 99 water usersorganizations 100 to 299 water usersorganizations	14	••••	14				::
300 to 999 water usersorganizations	6		5	:::] :::	•••	
1,000 or more water usersorganizations Size of organization (acre-feet of water			•••			:::	
delivered directly to farms): Noneorganizations	4		4				
1 to 299 acre-feetorganizations	6		i		:::	3	::
300 to 999 acre-feetorganizations 1,000 to 2,999 acre-feetorganizations	14 20	10 5	15			•••	
3,000 to 9,999 acre-feetorganizations	21	í	20		:::		:::
10,000 to 29,999 acre-feetorganizations 30,000 to 99,999 acre-feetorganizations	9		9		:::	:::	
100,000 or more acre-feetorganizations	1	:::	4	:::	:::		
Size of organization (acre-feet of water conveyed):							
Noneorganizations 1 to 299 acre-feetorganizations	1 5		1		:::		
300 to 999 acre-feetorganizations	14	11	3		:::		:::
1,000 to 2,999 acra-feetorganizations 3,000 to 9,999 acre-feetorganizations	19 22	4 2	15 20				
10,000 to 29,999 acre-feetorganizations	12		12	:::	:::		:::
30,000 to 99,999 acre-feetorganizations 100,000 or more acre-feetorganizations	5 1		5			1	
, Accession Balling of College	1					•••] 1

NA Not available.

State Table 5.—NUMBER OF IRRIGATION ORGANIZATIONS, TYPE OF SERVICE, NEW CAPITAL INVESTMENT, AND WATER CONVEYED, BY SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUS OF 1959

Item		Utah, total		Northwe Southwest	orthwest Great Se st Creat Salt Lak Great Salt Lake st Great Salt Lak (III-D 1-3)	e Basin, Basin, and
(For definitions and explanations, see text)		Size	of organization, b	by total water con		
	0-999 acre-feet	1,000-9,999 acre-feet	10,000 or more acre-feet	0-999 scre-feet	1,000-9,999 acre-feet	10,000 or more acre-feet
Number of organizations	442	463	79	195	192	3:
All water directly from surface and ground sourcesorganizations	383	349	64	152	132	2:
Total water conveyed	164,380 142,932	1,084,909 925,285	1,824,709	67,148	390,118	657,51
To farm and residential users onlyorganizations	382	335	1,572,447 40	59,905 152	344,767 125	569,72
acre-feet To farm and residential users and other	142,832	872,455	775,060	59,905	317,355	240,87
irrigation organizations		13 37,068	20 387,273		18,786	118,64
Water to other irrigation organizationsacre-feet To other irrigation organizations onlyorganizations	···i	15,762	260,536		8,626	94,05
acre-feet	100		149,578			116,15
Part of water from other organizationsorganizations Total water conveyedacre-feet	23 11,443	41 153,530	603,393	13 6,370	33 127,636	246,21
From surface and ground water sourcesacre-feet From other irrigation organizationsacre-feet	7,029 4,414	98,926 54,604	467,076 136,317	3,869 2,501	79,438 48,198	129,07 117,13
Water deliveredacre-feet To farm and residential users onlyorganizations	10,008	134,382	549,938	5,600	113,367	199,90
To farm and residential users and other	10,008	115,203	143,508	5,600	94,188	61,91
irrigation organizationsorganizations Water to farm end residential usersacre-feet		12,203	289,844		12,203	76,68
Water to other irrigation organizationsacre-feet		6,976	99,398		6,976	44,12
To other irrigation organizations onlyorganizations acre-feet			17,188	:::		17,18
All of water from other organizations	30 13,797	73 227,056	122.594	26 10,438	27 98,912	16,19
Water deliveredacre-feet To farm and residential users onlyorganizations	12,323	201,072	98,028	9,442	93,859	14,57
acre-feet	12,323	189,682	98,028	26 9,442	24 85,088	14,57
To farm and residential users and other irrigation organizationsorganizations		2			1	
Water to farm and residential usersacre-feet Water to other irrigation organizationsacre-feet	***	3,206 2,632	:::	:::	2,511 708	::
To other irrigation organizations onlyorganizations		5,552	:::	:::	5,552	
No water conveyedorganizations	6			4		
WATER FROM OTHER SOURGES						
Organizations reporting #0 water from other sources used on land served by the organizationorganizations	374	405	64	171	163	2
acres served acres irrigated	105,375 70,423	492,013 407,711	435,743 405,530	31,208 23,867	155,806 140,906	177,67 173,86
Organizations reporting water from other sources used	61	52	10	20	24	
on land served by the organizationorganizations	24,815 15,152	102,520 75,990	167,025	5,258	40,786	4,03
acres irrigated NEW CAPITAL INVESTMENT, 1950-1959	10,102	75,490	159,913	4,065	37,896	4,03
Expenditures for additional new works and						
equipment for irrigation and drainage, January 1, 1950-December 31, 1959organizations	211 1,233,408	288 4,467,421	65 32,645,430	80 373.082	98 1.835.534	2
dollars WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959	1,233,406	4,407,421	32,043,430	373,082	1,835,534	31,147,88
Total entering conveyance systems in basinorganizations	436	463	79	191	192	3
From another drainage basinorganizations	171,409 1	1,184,895	2,291,785	71,017	469,556 3	786,59
From Drainage Basin number	320	12,854	78,220	66,273	7,599	41,99
From natural sources within basinorganizations	405 171,089	386 1,172,041	72 2,213,565	165 4,744	163 461,957	744,60
Surface waterorganizations acre-feet	328 134,876	355 1,067,968	71 2,198,381	145 1-6,277	152 427,939	740,97
Ground waterorganizations	85 36,213	58 104,073	9 15,184	24 11,021	17 34,018	3,62
From other organizations in the basin	53 18,211	112 280,600	14 258,911	39 12,939	60 147,110	133,33
Total leaving conveyance systemsorganizations	436	463	79	191	192	3:
acre-feet Conveyance loss in basinorganizations	189,520 340	1,434,573 400	2,023,996 68	83,956 145	594,804 155	648,40
acre-feet Conveyed to another drainage basinorganizations	24,145 1	186,175 4	256,401	8,835	62,442	67,316
To drainage basin number	35	13,320				
Delivered for use in the basinorganizations	435 165,340	458 1,235,078	77 1,767,595	191 75,121	190 532,362	38 581,08°
To farm irrigation water usersorganizations	435 159,135	1,235,076 456 1,136,966	1,767,595 74 1,660,091	191 70,179	188 475,350	361,06 30 492,760
To residential water usersorganizations	65 6,028	1,156,966 142 92,851	38 33,622	47 4,768	475,390 76 54,781	192,780
For other useorganizations	4	17	9	3	11	
acre-feet Delivered to other irrigation organizationsorganizations delivering	177	5,261 20	73,882 31	174	2,231 13	68,39
acre-feet AVERAGE DELIVERY OF IRRIGATION WATER PER ACRE, 1959	100	30,922	526,700		21,862	271,51
Per ecre irrigated, as reported by irrigation organization:						
All organizationsacre-feet Organizations reporting NO water from other sources used	1.9	2.4	3.0	2.5	2.7	3.
on land served by the organizationorganizations	374 1.9	405 2.5	64 3.1	171 2.6	163 2.9	2.
4022-1020111				1		

Nater was transferred to the basin and released to natural stream channels in excess of the quantity of surface water withdrawn by irrigation organizations. The net effect was to increase the available surface water supply in the basin or State.

State Table 5.—NUMBER OF IRRIGATION ORGANIZATIONS, TYPE OF SERVICE, NEW CAPITAL INVESTMENT, AND WATER CONVEYED, BY SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUS OF 1959—Continued

Item	Sevier River and	Shoal Creek, Salt Lake, o	make Valley, 1 , Beaver River and Coal Creek D 4-9)	, Little			
(For definitions and explanations, see text)			Size of or	ganization, by	y total water conv		
	0-999 acre-feet	1,000- 9,999 scre-feet	10,000- 99,999 acre-feet	100,000 or more acre-feet	0-999 acre-feet	1,000- 9,999 acre-feet	100,000 or more acre-feet
Number of organizations	133	105	18		45	86	
All water directly from surface and ground sourcesorganizations	124	97	16		39	50	205 11
Total water conveyedacre-feet Water deliveredacre-feet	46,827 39,757	300,972 252,874	356,017 284,799	:::	18,586 16,486	172,801 140,194	385,44 337,58
To farm and residential users onlyorganizations	123	93 237,684	12 185,558		39 16,486	50 140,194	64,20
To farm and residential users and other	39,657		185,558		10,400		04,20
irrigation organizationsorganizations Water to farm and residential usersacre-feet		9,662	36,046	:::	:::	:::	179,9
Water to other irrigation organizationsacre-feet		5,528	63,195				83,9
To other irrigation organizations onlyorganizations acre-feet	100		:::		:::		9,5
Part of water from other organizationsorganizations	7	3			2	2	
Total water conveyedacre-feet	3,556 2,410	9,097 8,037			950 350	10,880	:
From surface and ground water sourcesacre-feet From other irrigation organizationsacre-feet	1,146	1,060	:::		600	3,100	
Water deliveredacre-reet	3,095	7,496		:::	796	8,210	:
To farm and residential users onlyorganizations acre-feet	3,095	7,496			796	8,210	
To farm and residential users and other irrigation organizationsorganizations							
Water to farm and residential usersacre-feet							
Water to other irrigation organizationsacre-feet To other irrigation organizations onlyorganizations				:::		:::	:
acre-feet							
All of water from other organizationsorganizations		5 15,599	52,942		3,359	34 87,417	:
Total water conveyedacre-feet Water deliveredacre-feet		14,630	38,014		2,881	70,253	
To farm and residential users onlyorganizations acre-feet		12.011	38.014		2,881	70,253	:
To farm and residential users and other			30,021				
irrigation organizationsorganizations Water to farm and residential usersacre-feet		1 695		:::	***		:
Water to other irrigation organizationsacre-feet		1,924				:::	
To other irrigation organizations onlyorganizations acre-feet	:			:::		:::	
No water conveyedorganizations	2						
WATER FROM OTHER SOURCES			1				
Organizations reporting NO water from other sources used					41	85	
on land served by the organizationorganizations	98 44,171	84 125,433	15 96,219		13,719	119,857	79,9
acres irrigated	26,434	90,512	82,720		9,941	107,030	79,0
Organizations reporting water from other sources used	32	21	3		4	,	
on land served by the organizationorganizations acres served	16,586	49,372	30,200	:::	1,696	1,900	12,2
acres irrigated	9,008	27,336	23,800		974	1,800	12,2
NEW CAPITAL INVESTMENT, 1950-1959							
Expenditures for additional new works and equipment for irrigation and drainage,						1	
January 1, 1950-December 31, 1959organizations	62 616,441	1,257,293	18 506,304		24 29,146	47 314,398	95,5
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959	010,441	1,231,233	300,304		27,210	32.,5	,-
Total entering conveyance systems in basinorganizations	131	105	18		45	86	
acre-feet	49,237	309,009	356,017		18,936	181,641	385,4
From another drainage basinorgenizations acre-feet		:::	15,330	:::	320	9,620	62,8
From Drainage Basin numberD. B. No From natural sources within basinorganizations	131	100	15	:::	40	50	
acre-feet	49,237	309,009	340,687		18,616	172,021	322,
Surface waterorganizations	97 34,707	269,911	338,287		27 11,942	45 153,721	322,
Ground waterorganizations	37	24 39,098	2,400		13 6,674	10 18,300	,
Acre-feet From other organizations in the basinorganizations receiving	14,530	. 8		:::	5	34	
acre-feet	1,146	16,659	52,942		3,959	89,457	
Total leaving conveyance systemsorganizations acre-feet	131 50,283	105 318,216	18 345 764		45 22,895	86 271,098	292,0
Conveyance loss in basinorganizations	107	97	345,764 17		31	78	
acre-feet Conveyed to another drainage basinorganizations	7,528	46,688	83,885	:::	2,697 1	44,591 2	38,
acre-feet		2,920			35	5,880	6,2
To drainage basin number	130	105	18	:::	45	85	
acre-feet To farm irrigation water usersorganizations	42,755	268,608 105	261,879		20,163 45	220,627	247,
acre-feet	42,027	253,700	257,535	:::	19,822	203,750	241,8
To residential water usersorganizations acre-feet	725	13,848	2,083	:::	3 341	18 14,907	2,3
For other useorganizations	1	3	2			3	
acre-feet Delivered to other irrigation organisationsorganisations delivering	3	1,060	2,261	:::	:::	1,970	3,
acre-feet	100	7,452	63,195		• • • • • • • • • • • • • • • • • • • •		93,4
AVERAGE DELIVERY OF IRRIGATION WATER PER ACRE, 1959]			
Per acre irrigated, as reported by irrigation organization: All organizationsacre-feet	1.2	2.2	2.4		1.9	2.1	:
	1	1	1	1			
Organizations reporting NO water from other sources used on land served by the organizationorganizations	98	84	15		41	85	

State Table 5.—NUMBER OF IRRIGATION ORGANIZATIONS, TYPE OF SERVICE, NEW CAPITAL INVESTMENT, AND WATER CONVEYED, BY SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUS OF 1959—Continued

Item	Gila Ri	ver) and Colo	Lees Ferry (e rado River ab en and Gunniso d IV-D)	ove Lees		Green River			
(For definitions and explanations, see text)			Size of or	ganization, b	oy total water conveyed				
	0-999 acre-feet	1,000- 9,999 scre-feet	10,000- 99,999 acre-feet	100,000 or more scre-feet	0,999 acre-feet	1,000- 9,999 acre-feet	10,000 or more acre-feet		
Number of organizationsorganizations TYPE OF SERVICE	45	39	4		20	41	16		
All water directly from surface and ground sourcesorganizations	45	34	4		18	36	15		
Total water conveyedacre-feet Water deliveredacre-feet	20,296 17,296	80,336 70,657	86,383 76,394		9,515 8,002	144,947 114,613	447,62 303,93		
To farm and residential users onlyorganizations	45 17,296	64,002	34,710		18 8,002	34 111,040	249,71		
To farm and residential users and other irrigation organizationsorganizations	,	1	2		-,		,		
Water to other irrigation organizationsacre-feet		6,449	32,789			2,171	19,82		
To other irrigation organizations onlyorganizations		206	8,895			1,402	10,47		
acre-feet	•••		•••				23,92		
Part of water from other organizationsorganizations Total water conveyedacre-feet		3,881			567	2,036	35 7,18 33 7, 99		
From surface and ground water sourcesacre-feet From other irrigation organizationsacre-feet		2,050 1,831	:::		400 167	1,621 415	337,99 19,1		
Water deliveredacre-feet To farm and residential users onlyorganizations		3,473			517	1,836	350,0		
acre-feet	:::	3,473	:::	:::	517	1,836	81,59		
To farm and residential users and other irrigation organizationsorganizations									
Water to farm and residential usersacre-feet Water to other irrigation organizationsacre-feet			:::	:::		:::	213,16 55,2		
To other irrigation organizations onlyorganizations	:::			:::		:			
All of water from other organizationsorganizations		3				4			
Total water conveyedacre-feet		7,270			:::	17,858 15,060	53,4 45,4		
Water deliveredacre-feet To farm and residential users onlyorganizations		3				4			
To farm and residential users and other	•••	7,270				15,060	45,43		
irrigation organizationsorganizations Water to farm and residential usersacre-feet					:::	:::	:		
Water to other irrigation organizationsacre-feet									
To other irrigation organizations onlyorganizations					:::	:::	:		
No water conveyedorganizations					1				
WATER FROM OTHER SOURCES									
Organizations reporting NO water from other sources used on land served by the organizationorganizations	44	38	4		16	35	1		
acres served acres irrigated	11,172 5,956	40,618 27,684	16,620 14,620		4,445 3,685	48,873 40.763	104,04 94,03		
Organizations reporting water from other sources used	2,,,,,	27,003	14,020		5,005	40,703	,4,0.		
on land served by the organizationorganizations	1 90	1,500			3 905	8,962	120,54		
acres irrigated	60	500			905	8,458	119,8		
NEW CAPITAL INVESTMENT, 1950-1959									
Expenditures for additional new works and equipment for irrigation and drainage,	27	33	,		14	39	1		
January 1, 1950-December 31, 1959organizations	194,179	660,385	172,616		18,660	399,411	723,0		
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959									
Total entering conveyance systems in basinorganizations acre-feet	45 20,296	39 82,386	86,383		19 9,915	146,568	785,6		
From another drainage basinorganizations acre-feet		2,920							
From Drainage Basin number	45				19		:		
From natural sources within basinorganizations	45	35	86,383		9,915	146,568	785,6		
acre-feet	20,296	79,466	00,303			36			
acre-feet Surface water	20,296 39 17,164	32 68.694	77,224		9,915	144,683	785.6		
Surface water	39 17,164 8	68,694 68	77,224 1		9,915	144,683	785,6		
acre-feet. acre-feet.	39 17,164 8 3,132	32 68,694 6 10,772	77,224 1 9,159		9,915	144,683 1 1,885			
acre-feet Surface water Ground w	39 17,164 8 3,132	68,694 68	77,224 1 9,159		9,915 1 167	144,683 1 1,885 5 18,273	72,6		
Surface water. acre-feet.	39 17,164 8 3,132 45 20,296	32 68,694 6 10,772 5 9,101 39 91,281	77,224 1 9,159	:::	9,915 1 167 19	144,683 1 1,885 5 18,273 41 163,439	72,6 768,58		
Surface water. acre-feet. Ground water. organizations From other organizations in the basin organizations Conveyance acres Conveyance loss in basin organization organizations Conveyance loss in basin organizations Conveyance loss in basin organizations Conveyance loss in basin organizations Conveyance loss in basin organizations Conveyance loss in basin organizations Conveyance loss in basin organizations Conveyance loss in basin organizations Conveyance loss in basin organizations	39 17,164 8 3,132 45 20,296 37 3,000	32 68,694 6 10,772 5 9,101	77,224 1 9,159 4 77,488 4 9,989		9,915 1 167 19 10,082 15 1,563	144,683 1 1,885 5 18,273 41	72,6 768,5		
Surface water. acre-feet.	39 17,164 8 3,132 45 20,296	32 68,694 6 10,772 5 9,101 39 91,281 33	77,224 1 9,159 4 77,488		9,915 1 167 19 10,082	144,683 1 1,885 5 18,273 41 163,439	72,6		
Surface water	39 17,164 8 3,132 45 20,296 37 3,000	32 68,694 6 10,772 9,101 39 91,281 33 10,087	77,224 1 9,159 4 77,488 4 9,989		9,915 1 167 19 10,082 15 1,563	144,683 1 1,885 5 18,273 41 163,439 37 21,527 3	72,63 768,55 56,8°		
Surface water	39 17,164 8 3,132 45 20,296 37 3,000 45 17,296	32 68,694 6 10,772 9,101 39 91,281 33 10,087 	77,224 1 9,159 4 77,488 4 9,989		9,915 1 167 19 10,082 15 1,563 19 8,519	144,683 1,885 18,273 41 163,439 21,527 31,805 39 130,107	72,6 768,5 56,8 101,9		
Surface water	39 17,164 8 3,132 45 20,296 37 3,000	32 68,694 6 10,772 5 9,101 39 91,281 33 10,087 39 81,194 39 74,180	77,224 1 9,159 4 77,488 9,989 		9,915 1 167 19 10,082 15 1,563 	144,683 1 1,885 5 18,273 41 163,439 21,527 11,805 	72,6 768,5 56,8 101,9		
acre-feet. acre-feet.	39 17,164 8 3,132 45 20,296 37 3,000 45 17,296 45	32 68,694 6 10,772 9,101 39 91,281 33 10,087 39 81,194 39 74,180	77,224 1 9,159 4 77,488 4 9,989 4 67,499		9,915 1 167 19 10,082 15 1,563 19 8,519 1,98 8,494	144,683 1,885 5 18,273 4 163,439 37 21,527 31,805 39 130,107 39 127,806	72,6 768,5 56,8 101,9 609,7		
Surface water	399 17,164 8 3,132 45 20,296 3,7 3,000 45 17,296 45 17,127 5 169	32 68,694 6 10,772 5 9,101 39 91,281 33 10,087 39 81,194 4 39 74,180 13 7,014	4 77,224 1 9,159 4 77,488 4 9,989 4 67,499 4 65,152 2,347		9,915 1 167 19 10,082 1,563 8,530 8,530 8,434 1 25	144,683 1,885 5,18,273 41,163,439 73,72 21,527 33,11,805 39,127,806 5,2,301 	72,6 768,5 56,8 101,9 609,7; 602,8;		
Surface water	399 17,164 8 3,132 45 20,296 37 3,000 45 17,295 169	32 68,694 6 10,772 5 9,101 39 91,281 33 10,087 39 81,194 39 7,180 13 7,014	4 77,224 1 9,159 4 77,488 4 9,989 4 67,499 4 65,152 2,347 2		9,915 1 167 19 10,082 15 1,563 19 8,519 8,494 1 25	144,683 1,885 18,273 41 163,439 21,527 31 1,805 130,107 39 121,866 2,301 	72,6. 768,56,8. 101,9. 609,7. 602,8.		
Surface water	39 17,164 8 3,132 45 20,296 37 3,000 45 17,296 45 17,127 56 169	32 68,694 6 10,772 5 9,101 39 91,281 33 10,087 39 81,194 4 39 74,180 13 7,014	4 77,224 1 9,159 4 77,488 4 9,989 4 67,499 4 65,152 2,347		9,915 1 167 19 10,082 15 1,563 19 8,519 19 8,494 11 25	144,683 1,885 5,18,273 41,163,439 73,72 21,527 33,11,805 39,127,806 5,2,301 	72,6 768,5 56,8 101,9 609,7; 602,8;		
Surface water	39 17,164 6 8 3,132 3 122 3 120 17,164 17,169 17,127 169 17,127	32 68,6% 69,001 9,101 39 91,281 33 10,087 39 81,194 39 74,180 11 11 12 12 12 12 12 12 12 12 12 12 12	4 77,224 19 19 19 19 19 19 19 19 19 19 19 19 19		9,915 1, 167 19 10,082 1,563 19 8,519 8,519 25	144,683 1,885 18,273 41 163,439 27,1527 21,527 39 100,107 39 127,806 1 1,402	72,6 768,5 56,8 101,9 609,7 602,8 6,90		
Surface water	399 17,164 8 3,132 45 20,296 37 3,000 45 17,295 169	32 68,694 6 10,772 5 9,101 39 91,281 33 10,087 39 81,194 39 7,180 13 7,014	4 77,224 1 9,159 4 77,488 4 9,989 4 67,499 4 65,152 2,347 2		9,915 1 167 19 10,082 15 1,563 19 8,519 8,494 1 25	144,683 1,885 18,273 41 163,439 21,527 31 1,805 130,107 39 121,866 2,301 	72,6 768,58 56,8		



WASHINGTON

(349)

State Table 1.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950

			North Pacis	ic Coast ex	eluding Colu	mbia River		Columbi	a River bel	ow Snake Riv	er (I-B)
	Item (For definitions and explanations, see text)	The State (North Pacific Coast)	Total	Pacific Coast direct	Puget Sound	Dungeness River	Columbia River, total Total	Total	Columbia River direct	Klickitat River	Walla Walla River
				(1)	(2)	(3)			(1)	(4)	(8)
1 2	Total acres irrigated in Census year1959	1,006,969 618,129	71,000 31,306	13,000 4,551	48,000 16,429	10,000 10,326	936,000 586,823	70,000 43,164	26,000 8,586	7,000 5,827	37,000 28,751
3	Irrigation organizationsorganizations 1959 1949	350 441	10 16			10 10	340 425	70 97	8 11	4 5	58 81
5	Service area, 1959: Farm area reported served by organizationsacres 1959	948,932	20,645			20,645	928,287	29,860	6,737	8,840	14,283
6	Farm area reported irrigated by organizationsacres 1959	847,752	15,680			15,680	832,072	28,371	5,897	8,600	13,874
7	Water users served, totalwater users 1959	63,429	880			880	62,549	1,422	129	112	1,181
8	Farm irrigation water userswater users 1959	29,752	762			762	28,990	1,109	99	112	898
9	Residential water userswater users 1959	33,539	116			116	33,423	313	30		283
10	Other water userswater users 1959	1.38	2	• • •		2	136				
	LAND IRRIGATED BY SOURCE OF WATER, 1959	133,903	29,000	5,000	24,000		105,000	23,000	8,000		15,000
11	Ground water sourcesacres Surface water sourcesacres	873,066	42,000	8,000	24,000	10,000	831,000	47,000	18,000	7,000	22,000
12	WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959	,		,	,		,	,	,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
13 14	Total entering conveyance systems in basinorganizations acre-feet	347 4,922,092	10 114,483			10 114,483	337 4,907,609	70 132,111	8 44,605	33,317	58 54,189
15 16	From another drainage basinorganizations	67,703		• • • •		:::	67 ,7 03	1 15,364	15,364	:::	
17	From drainage basin numberD. B. No										
18 19	From natural sources within basinorganizations acre-feet	322 4,854,3 8 9	10 114,483			10 114,483	312 4,739,906	69 116,747	7 29,241	33,317	58 54,189
20 21	Surface waterorganizations acre-feet	303 4,7 3 3,940	10 114,483		• • •	10 114,483	293 4,619,457	67 115,564	7 29,241	33 , 317	56 53,006
22 23	Ground waterorganizations acre-feet	27 120,449		:::			27 120,449	1,183		:	1,183
24 25	From other organizations in the basinorganizations receiving	34 62,388					34 62,388	:::	:::	:::	
26 27	Total leaving conveyance systemsorganizations acre-feet	347 4,922,092	10 114,483			10 114,483	337 4,807,609	70 132,111	8 44,605	33,317	58 54,189
28 29	Conveyance loss in basinorganizations acre-feet	261 1,153,487	10,931	:::		9 10,931	253 1,142,556	40 17,550	8,650	6,545	31 2,355
30 31	Conveyed to another drainage basinorganizations acre-feet	4,364					4,364	4,364	4,364	:::	
32	To drainage basin numberD. B. No	***					• • •				•••
33 34	Delivered for use in the basinorganizations acre-feet	346 3,764,241	103,552		• • • •	103,552	336 3,660,689	70 110,197	31,591	26,772	58 51,834
35 36	To farm irrigation water usersorganizations acre-feet	345 3,697,304	99,739			99 ,73 9	335 3,597,565	70 109,419	31,531	26,772	58 51,116
37 38	To residential water usersorganizations acre-feet	45 37,836	3,678	:::		3,678	34,158	778	60	:::	718
39 40	For other useorganizations acre-feet	21 29,101	135		***	1 135	20 28,966	:::			
41 42	l'elivered to other impation organizations	10 62,388	:::				10 62,388		:::	:::	:::
43	Average delivery of irrigation water per acre irrigated as reported by organizationsacre-feet	4.4	6.4			6.4	4.3	3.9	5.3	3.1	3.6
44	NEW CAPITAL INVESTMENT, 1950-1959 Expositives for additional new works and equipment for irrigation and drainage, Jan. 1, 1950-Dec. 31, 1959	117 200,768,354	29,250			29 , 250	113 200,739,104	9 121,541	2 48,000		7 73,541

State Table 1.-NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950-Continued

		Columbia River above Snake River excluding Yakima River (I-C)									
				Columbia R							
	Item (For definitions and explanations, see text)	Total	Totel	Below Trinidad, Washington	Trinidad to Rocky Reach Gage	Above Rocky Reach Gage	Wenstchee River	Lake Chelan	Methow River	Okanogan River	Grand Coulee area, Spokane River and Clark Fork
				(18)	(1b)	_(lc, d)	(3)	(4)	(5)	(6)	(2, 7, 8e)
2	Total acres irrigated in Census year1959	410,000 113,842	168,000 43,368	120,000 13,998	20,000 NA	28,000 NA	12,000 14,250	7,000 5,421	12,000 8,588	25,000 16,214	186,00 26,00
3	Irrigation organizationsorganizations 1959	149 171	77 82	5 7	54 NA	18 NA	20 28	3	27 30	11 10	
5	Service area, 1959: Farm area reported served by organizations	422,307	163,923	144,048	15,746	4,129	16,441	4,344	9,716	20,658	207,22
6	Farm area reported irrigated by organizationsacres 1959	354,562	132,405	117,229	13,253	1,923	15,671	4,344	8,134	15,130	178,8
7	Water users served, totalwater users 1959	31,738	13,996	11,658	2,123	215	5,028	260	474	1.713	10,26
8	Farm irrigation water userswater users 1959	13,211	4,041	2,357	1,469	215	2,323	260	391	1,511	4,68
9	Residential water userswater users 1959	18,509	9,942	9,301	641		2,705		83	202	5,5
10	Other water userswater users 1959	18	13		13						
	LAND 1RRIGATED BY SOURCE OF WATER, 1959										
11	Ground water sourcesacres	64,000	15,000	5,000	4,000	6,000	2,000	1,000	2,000	6,000	38,00
12	Surface water sourcesacres	346,000	153,000	115,000	16,000	22,000	10,000	6,000	10,000	19,000	148,00
13 14	WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959 Total entering conveyance systems in basin	148 2,126,716	76 800,916	5 722,012	54 68,660	17 10,244	20 92,649	3 9,343	27 79,348	11 97,760	1,735,62
15	From another drainage basinorganizations	3 117,095	3	2	1						
16 17	acre-feet From dreinage basin numberD. 8. No	117,099	753,682	734,856 (1)	18,826						52,33
18	From natural sources within basinorganizations	130	70		49	17	18		27	11	
19	acre-feet	2,009,621	47,234	2+12,844	49,834	10,244	92,649	9,343	79,348	97,760	1,683,28
20 21	Surface waterorganizations acre-feet	1,898,310	43,985	2-12,844	47,343	9,486	18 92,649	9,343	79,348	97,760	1,575,22
22 23	Ground waterorganizations acre-feet	111,311	3,249		2,491	758	:::'	***			108,06
24 25	From other organizations in the basin	26 39,430	2,546		8 2,546		9 17,837		4 740		18,30
26 27	Total leaving conveyance systemsorganizations acre-feet	148 2,126,716	76 800,916	722 , 012	54 68,660	17 10,244	20 92,649	9,343	27 79,348	97 , 760	1,735,6
28 29	Conveyance loss in basinorganizations acre-feet	101 676,375	54 249,995	238,581	39 10,710	10 704	16 9,016	305	18 35,735	23,032	358,29
30 31	Conveyed to another drainage basinorganizations acre-feet						18,826				670,10
32	To drainage basin number	***					1-b				1-
33 34	Delivered for use in the basinorganizations acre-feet	1,450,341	76 550,921	483,431	54 57,950	17 9,540	20 64,807	9,036	43,613	74,728	707,23
35 36	To farm irrigation water usersorganizations acre-feet	147 1,432,952	76 545,411	478,731	54 57,140	17 9,540	20 61,661	9,038	27 43,265	74,128	699 , 44
37 38	To residential water usersorganizations acre-feet	20 15,154	10 5,325	4,700	8 625		3,146		2 348	600	5,73
39 40	For other useorganizations acre-feet	2 , 235	3 185		3 185	:		:::	:::	:::	2,05
41 42	l'elivered to other urigation organizations	7 39,430	3 2,546		3 2,546		3 17,837		1 740		18,30
43	Average delivery of irrigation water per acre irrigated as reported by organizationsacre-feet	4.0	4.1	4.1	4.3	5.0	3.9	2.1	5.3	4.9	3.
44	NEW CAPITAL INVESTMENT, 1950-1959 Expenditures for additional new works and equipment for irrigation and drainage, Jan. 1, 1950-Dec. 31, 1959	57 191,966,077	26 86,917,486	62,165,263	16 240,154	7 24,512,069	6 142,695	1 24,363	12 36,900	5 46,410	104,798,22

NA Not available. 164,756 sere-feet from D. B. No. 1, 670,100 sere-feet from D. B. No. 2. *#Seter was transferred to the basin and released to natural stream channels in excess of the quantity of surface water withdrawn by irrigation organizations. The net effect was to increase the available surface water supply in the basin or State.

IRRIGATION OF AGRICULTURAL LANDS

State Table 1.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Continued

			Yakima Riv	er (I-D)		Snake River below Weiser, Idaho (I-E)			
	Item (For definitions and explanations, see text)	Total	Below Union Gap	Union Gap to Umtanum	. Above Umtanum	Totel	Snake River direct	Grande Ronde River	
			(1)	(2)	(3)	34.000	(1)	(2)	
2	Total acres irrigated in Census year1959	441,000 422,622	249,000 226,437	86,000 85,652	106,000 110,533	15,000 7,195	15,000 7,068	ia	
3	Irrigation organizationsorganizatious 1959	121 157	8 23	72 93	43 46	1 2	1 2	::	
5	Service area, 1959: Farm area reported served ty organizationsacres 1959	(D)	(D)	83,019	97,319	(D)	(D)		
6	Farm area reported irrigated by organizationsacres 1959	(D)	(D)	76,575	92,754	(D)	(D)		
7	Water users served, totalwater users 1959	(D)	(D)	15,740	1,609	(D)	(D)		
8	Farm irrigation water userswater users 1959	(D)	(D)	4,816	1,422	(D)	(D)		
9	Residential water userswater users 1959	(D)	(D)	10,813	181	(D)	(D)		
10	Other water userswater users 1959	118	• • • • • • • • • • • • • • • • • • • •	111	6	•••			
11	LAND IRRIGATED BY SOURCE OF WATER, 1959 Ground water sourcesacres	13,000	4,000	7,000	2,000	5,000	5,000		
12	Surface water sources	428,000	245,000	79,000	104,000	10,000	10,000		
13 14	WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959 Total entering conveyance systems in basin	119 (D)	8 (D)	71 661,932	42 494,305	(D)	(D)		
15 16	From another drainage basinorganizations acre-fect	:::	(D)						
17	From drainage basin numberD. B. No		2			•••		••	
18 19	From natural sources within basinorganizations acre-feet	112 (D)	6 (D)	64 661,932	42 494,305	(D)	(D)		
20 21	Surface waterorganizations acre-feet	108 (D)	(D)	654,402	494,190	(D)	(D)	::	
22 23	Ground waterorganizations	6 (D)		7,530	1 115	(D)	(D)	-:	
24 25	From other organizations in the basin	(D)	:::	8 22,958			:::	::	
26 27	Total leaving conveyance systemsorganizations acre-feet	119 (D)	(D)	71 661,932	42 494,305	(D)	(D)		
28 29	Conveyance loss in basinorganizations acre-feet	111 (D)	6 (D)	66 45,457	41 65,629	(D)	(D)		
30 31	Conveyed to another drainage basinorganizations acre-feet	(D)	(D)	340,582	:::	:::	:::	::	
32	To drainage basin number			1				-	
33 34	Delivered for use in the basinorganizations acre-feet	117 (D)	7 (D)	70 275,893	42 428,676	(D)	(D)	:	
35 36	To farm irrigation water usersorganizations acre-feet	117 (D)	7 (D)	70 246,653	42 422,152	(D)	(D)	::	
37 38	To residential water usersorganizations acre-feet	15 (D)	:::	14 9,026	700	(D)	(D)	:	
39 40	For other useorganizations acre-feet	14 (D)	(D)	7 20,214	6 5,824	(D)	(D)	:	
41	l'elivered to other uragation organizations delivering	3		3 22 , 958					
42 43	actrifect Average delivery of irrigation water per acre irrigated as reported by organizationsacre-feet	22,958 4.6	5.0	22,958	4.6	(D)	(D)		
44	NEW CAPITAL INVESTMENT, 1950-1959 Expenditures for additional new works and equipment for irrigation and drainage, Jan. 1, 1950-bec. 31, 1959	48 (D)	5 (D)	39 1,451,791	5 921 ,5 75	:::	:::	:	

 $[\]ensuremath{\mathsf{D}}$ Data not shown to avoid disclosure of information for individual organizations.

State Table 2.-NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950

Item (For definitions and explanations, see text)	Washington, total	Columbia River below Snake River	Columbia River above Snake River excluding Yakima River	Yakima River
		(I-B)	(I-C)	(I-D)
rrigation organizations, total numberorganizations 1959	350 441	70 97	149 171	1; 15
rea irrigated as reported by organizations	847,752 513,583	28,371 29,055	354,562 67,184	() (1
Farm water users served directlywater users 1959	29,752	1,109	13,211	(1
Total water conveyedacre-feet 1959	4,984,480	132,111	2,166,146	(:
TYPE OF ORGANIZATION				
Mutual: Unincorporatedorganizations 1959 1949 Farm area irrigated directlyacres 1959	209 273 50,486	52 75 8,984	81 98 10,349	30,8
Farm water users served directlywater users 1959	1,523	368	479	6
Total water conveyedacre-feet 1959 Incorporatedorganizations 1959	280,036	37,274	52,037 25	187,7
1949 Farm area irrigated directlyacres 1959	82 56,651	11 12,735	29 10 013	27,2
Farm water users served directlywater users 1959 Total water conveyedacre-feet 1959	3,422 383,613	196 60,960	1,160 114,932	1,8 153,6
Districtorganizations 1959	65 74	10	39 40	
Farm area irrigated directlyacres 1959 Farm water users served	274,703	6,652	66,071	193,2
directlywater users 1959 Total water conveyedacre-feet 1959	17,835 1,404,850	545 33,877	9,023 387,1 <i>5</i> 7	7,7 991,1
U.S. Bureau of Reclamation; projects and storage systems operated by bureauorganizations 1959	3		1	
Farm area irrigated directlyacres 1959			267,085	66,0
directlywater users 1959 Total water conveyedacre-feet 1959	3,536 1,933,708	:::	2,491 1,601,900	1,1 331,4
U. S. Bureau of Reclamation, operated by water users	7		4	
1949 Farm area irrigated directlyacres 1959	11 169,912	NA ···	NA 13,750	156,1
Farm water users served directlywater users 1959 Total water conveyedacre-feet 1959	6,637 860,011	:::	804 83,199	5,8 841,
U. S. Bureau of Indian Affairsorganizations 1959 1949	5 2		2	
Farm area irrigated directlyacres 1959	(D)		(D)	'
directlywater users 1959 Total water conveyedacre-feet 1959	(D)	:::	(D) (D)	
Commercialorganizations 1959	2 3		1 2	
Farm area irrigated directlyacres 1959 Farm water users served	(D)		(D)	
directlywater users 1959 Total water conveyedacre-feet 1959	(D)	***	(D) (D)	
Stateorganizations 1959 1949	:::			
Farm wrea irrigated directlyacres 1959 Farm water users served				
directlywater users 1959 Total water conveyedacre-feet 1959	:::			
Cityorganizations 1959				
Farm area irrigated directlyacres 1959 Farm water users served				
directly				:

 $^{{\}tt D}$ Data not shown to avoid disclosure of information for individual organizations. NA Not available.

State Table 2.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Continued

Item (For definitions and explanations, see text)	Washington, total	Columbia River below Snake River	Columbia River above Snake River excluding Yakima River	Yakima River
		(I-B)	(I-C)	(I-D)
TYPE OF SERVICE, 1959				
All water directly from surface and ground water acurees	312 4,897,865 3,721,298	70 132,111 110,197	121 2,099,024 1,422,531	2,598,6 2,071,6
To farm and residential users onlyorganizations acre-feet	3,405,213	70 110,197	116 1,343,988	1,834,1
To farm and residential users and other irrigation organizationsorganizations	6		1,343,500	ا ومحره و ۱
Water to farm and residential usersacre-feet	259,995		45,411	214,5
Water to other irrigation organizations	31,483		14,825	16,6
onlyacre-feet	24,607		18,307	6,2
Part of water from other organizationsorganizations	10		11	
Total water conveyedacre-feet . From surface and ground water sourcesacre-feet	40,680 8,729		38,145 12,194	2,: 1 _{-3,4}
From other irrigation				6,
organizationsacre-feet Water deliveredacre-feet To farm and residential	31,951 38,215		25,951 36,280	1,
users onlyorganizations acre-feet	22,267	***	20,332	1,
To farm and residential users end other irrigation organizations organizations Water to farm and residential	1		1	
water to other irrigation	9,900		9,900	
organizationsacre-feet To other irrigation organizations onlyorganizations	6,048		6,048	
acre-feet	***			
All of water from other	23		16	
organizations organizations. Total water conveyed acre-feet. Water delivered acre-feet. To farm and residential	45,935 38,015	:::	28,977 28,725	
users onlyorganizations	22		15	
acre-feet To farm and residential users and other irrigation organizationsorganizations	37,260		27,970	
Water to farm residential usersacre-feet	505		505	
Water to other irrigation organizationsacre-feet	250		250	
To other irrigation organizations onlyorganizations		1		
acre-feet				
No water conveyedorganizations	3	•••	1	
WATER FROM OTHER SOURCES				
Organizations reporting 50 water from other sources used on land served				
by the organizationorganizations acres served	301 840,631	64 17,957	130 408,059	412,
acres irrigated	746,002 3,291,955	16,768 70,811	342,839 1,401,938	378, 1,761,
Water delivered to farmsacre-feet acre-feet per acre Organizations reporting water from other	3,291,955	4.2	4.1	1,761,
sources used on land served by the organizationorganizations	44	6	17	
acres served acres irrigated	112,501 105,671	16,103 15,524	14,248 11,723	
Water delivered to farmsacre-feet acre-feet per acre	421,033 4.0	54,292 3.5	31,014	

Water was transferred to the basin and released to natural atream channels in excess of the quantity of surface water withdrawn by irrigation organizations. The net effect was to increase the available surface water supply in the basin or State.

State Table 2.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Continued

	Item (For definitions and explanations, eee text)	Washington, total	Columbia River below Snake River	Columbia River above Snake River excluding Yakima River (I-C)	Yakima River (1-D)
-	WATER DELIVERED PER ACRE				
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Organizations reporting NO water from other sources used on same land: Ol. to 0.9 acre-feet per sereorganizations. 1.0 to 1.9 acre-feet per acreorganizations. 2.0 to 2.9 acre-feet per acreorganizations. 3.0 to 3.9 acre-feet per acreorganizations. 4.0 to 4.9 acre-feet per acreorganizations. 5.0 to 5.9 acre-feet per acreorganizations. 6.0 to 6.9 acre-feet per acreorganizations. 7.0 to 7.9 acre-feet per acreorganizations. 8.0 to 9.9 acre-feet per acreorganizations. acres irrigated. 8.0 to 9.9 acre-feet per acreorganizations. acres irrigated. 10.0 or more acre-feet per acreorganizations. acres irrigated.	1,500 12,689 12,689 19,052 62 142,687 71 397,733 31 13,426 117,740 66 6,874 13,399 11 13,999	 2 350 11 2,472 16 4,121 25 5,880 5 1,388 220 220 230 3 1,624 1713 	 7 4, 974 1, 14 1, 1516 32 25, 466 27 290, 482 112 3, 3, 491 110, 795 11, 795 11, 799 1, 1539 1, 1539 1, 1539	1,500 7,365 13 13,004 14 13,100 1,10
	SIZE OF ORGANIZATION Size of organization (number of farm				
21	Size of organization (number of farm irrigation water users served directly); Noneorganizations	5		2	3 43
22 23 24 25 26 27 28 29 30 31 32 33 34 35	1 to 3. organizations. 4 to 9. organizations. 10 to 29. organizations. 30 to 99. organizations. 100 to 299. organizations. 300 to 999. organizations. 300 to 999. organizations. 300 to 999. organizations. 300 to 999. organizations. water users. 1,000 or more organizations. water users.	105 250 84 478 78 1,077 2,452 3,321 13 6,683 8	13 30 30 173 21 141 5 5 261 1 350 	49 115 28 166 27 47 47 47 47 47 47 47 47 47 47 47 47 47	43 105 25 135 295 11 11 626 9 1,292 (0) (0) (0)
36	Size of organization (acre-feet of water delivered directly to farms): Noneorganizations	5		2	3
37 38 39 40 41 42 43 44 45 46 47 48 49 50	1 to 299 acre-feet. organisations. 300 to 999 acre-feet. organisations. 1,000 to 2,999 acre-feet. organisations. 3,000 to 9,999 acre-feet. organisations. 10,000 to 29,999 acre-feet. organisations. 30,000 to 29,999 acre-feet. organisations. 30,000 to 99,999 acre-feet. organisations.	93 14,598 99 52,476 73 132,376 46 238,273 237,447 6 286,472 5,2631,344	23 2,935 23 12,049 1.5 26,378 6 31,832 51,904	53 8,583 44 23,562 46,560 57 85,97 116,299 2 92,357 1,060,000	177 3,080 32 16,965 32 59,438 59,438 69,232 (0) (1) (1) (1) (1)
51	Size of organization (acre-feet of water conveyed): Noneorganizations	3 78	21	1 44	2 13
52 53 54	1 to 299 scre-feetorganizations scre-feet 300 to 999 scre-feetorganizations	12,197	2,657 24	7,082	2,458
54 55 56 57	acre-feet 1,000 to 2,999 acre-feetorganizations	54,798 69	12,617	24,564 23 39,439	17,617 32 61,829 23
57 58 59	acre-feet 3,000 to 9,999 acre-feetorganizations acre-feet	124,221 53 277,126	22,953 7 34,663	19 102,844	114,611
60 61	acre-leetorganizations acre-feetacre-feet	31 478,451	72,395	148,319	11 149,862
62 63 64	30,000 to 99,999 scre-feetorganizations scre-feet 100,000 or more acre-feetorganizations	10 544,333 5		277,526	(p) (p) (p) (o)
65	acre-feet	3,536,669	···	1,601,900	(0)

IRRIGATION OF AGRICULTURAL LANDS

State Table 3.-LAND IRRIGATED BY SOURCE OF WATER, BY DRAINAGE BASINS: CENSUS OF 1959

	Item (For definitions and explanations, see text)	Washington, total	Columbia River below Snake River (I-B)	Columbia River above Snake River excluding Yakima River	Yakima River (I-D)
1	Total scres irrigated	19,292	1,417	7,046	7,326
2	acres	1,006,969	69,766	410,235	441,139
3	Acres irrigated by sprinklersfarms reporting	10,481	1,098	4,365	1,879
4	acres	342,665	46,380	168,645	48.849
5	Sprinklers onlyfarms reporting	7,991	966	3,100	869
6	acres	251,603	39,041	116,447	19,739
	LAND IRRIGATED, BY SOURCE OF WATER TO INDIVIDUAL FARMS, 1959	•		ĺ	2.,
7	Ground water sources on farmfarms reporting	3,911	670	1,299	441
8	acres	118,157	22,603	48,375	13,344
9	Ground water sources on farm only.farms reporting	3,020	529	983	163
10	acres	83,158	14,556	34,507	4,401
11	Surface sources on farm	3,760	536	1,203	480
12	acres	143,671	25,369	46,937	30,799
13	Surface sources on farm onlyfarms reporting	3,039	442	979	245
14	acres	106,756	17,805	37,181	16,540
15	Irrigation organization sourcesfarms reporting	12,900	373	4,987	6,890
16	cores	745,141	21,794	314,923	396,996
17	Irrigation organization sources	1		,	
	onlyfarms reporting	12,004	294	4,648	6,464
18	acres	683,565	16,379	296,373	360,388
19	Both farm ground water sources and surface sources	332	72	96	28
20	acres	27,551	9,886	7,905	1,511
21	Both irrigation organization and farm ground water or farm surface sourcesfarms reporting	897	80	340	426
22	acres	105,939	11,140	34,269	58,299
22	acres	105,959	11,140	34,207	20,1

				Washington, total			
Item (For definitions and explanations, see text)		Mut	ual		U. S. Bureau	of Reclamation	Commercial.
, , , , , , , , , , , , , , , , , , , ,	All types	Unincorporated	Incorporated	District	Projects and storage systems operated by bureau	Operated by water users	Indian, State, city, and other
Irrigation organizationsorganizations 1959	350 441	209 273	66 82	65 74	3 3	7 11	
Service area, 1959: Area served, as reported by organizations	948,932	55,788	61,977	310,256	380,366	189,078	140.54
Area irrigated, as reported				274,703	333,179	169,912	132,73
by organizationsacres	847,752	50,486 1,8 7 5	56,651 11.585	39,385	333,179	13,790	7,04
Water users served, 1959, total	63,429 29,752 33,539 138	1,523 346 6	3,422 8,147 16	17,835 21,439 111	3,536	6,637 7,152	3,430 3,60'
All water directly from surface and ground							
water sourcesorganizations Total water conveyedacre-feet Water deliveredacre-feet To farm and residential users	312 4,897,865 3,721,298	197 276,308 233,540	53 356,826 269,513	1,348,750 1,111,366	1,933,708 1,276,492	860,011 709,529	982,27 830,38
onlyorganizations	304 3,405,213	195 225,900	50 235,416	51 1,053,510	1,060,000	709,529	830,38
To farm and residential users and other irrigation organizations organizations Water to farm and residential	6	1	2	2	1		
usersacre-feet	259,995	600	885	44,676	213,834		
Water to other irrigation organizationsscre-feet To other irrigation organizations	31,483	740	14,905	13,180	2,658		
onlyacre-feet	24,607	6,300	18,307	:::	:::	:::	::
Part of water from other organizations	12 40,680	2,070°	10,634	3 27,976			
sourcesacre-feet	8,729	1-185	1-1,556	10,470			
From other irrigation organizationsacre-feet Water deliveredacre-feet To farm and residential users	31,951 38,215	2,255 1,863	12,190 8,638	17,506 27,714			::
onlyorganizations acre-feet	22,267	1,863	8,638	11,766			::
To farm and residential users and other irrigation organizations	1			1			
usersacre-feet Water to other irrigation	9,900			9,900		***	
organizations	6,048			6,048			
acre-feet					:::	:::	
All of water from other organizationsorganizations Total water conveyedacre-feet Water deliveredacre-feet	23 45,935 38,015	7 1,658 1,600	9 16,153 8,822	7 28,124 27,593			::
To farm and residential users onlyorganizations acre-feet	22 37 ,2 60	7 1,600	8 8,067	7 27,593		:::	::
To farm and residential users and other irrigation organizationsorganizations	1		1				
Water to farm and residential	505		505				
Water to other irrigation organizationsacre-feet	250		250				
To other irrigation organizations onlyorganizations							
acre-feet No water conveyedorganizations							::
WATER FROM OTHER SOURCES	-			_	-		
Organizations reporting no water from other							
sources used on the land served by the organizationorganizations acres served	301 840,631 746,002	185 36,815 32,803	54! 47,530 42,547	53 235,375 204,740	2 380,366 333,179	5 126,640 111,772	140,54 132,73
acres irrigated water delivered to farms (acre-feet)	3,291,955	152,369	200,517	843,348	1,273,834	458,229	821,88
Organizations reporting water from other sources used on land served by the	4.4	4.6	4.7		3.8	4.1	6
organization	112,501 105,671 421,033 4.0	23 18,973 17,683 77,353 4.4	11 14,447 14,104 44,242 3.1	79,081 73,884 299,438 4.0		2 62,438 58,140 246,400 4.2	:
NEW CAPITAL INVESTMENT, 1950-1959							
Expenditures for additional new works and equipment for irrigation and drainage. January 1, 1950-becember 31, 1959 organizations. By U. S. B. R dollars. By sater users organizations dollars. See footnote at end of table.	117 196,054,785 4,713,569	46 148,634	30 753,763	36 8,574,705 1,534,940	3 187,480,080	8,574,705 815,450	2,276,232

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

	Washington, total Matual U. S. Bureau of Reclamation											
Item (For definitions and explanations, see text)		Mut	nal		U. S. Bureau o	of Reclamation	Commercial.					
(FOI derintizing and expendence), see see.	All types	Unincorporated	incorporated	District	Projects and storage systems operated by bureau	Operated by water users	Indian, State, city, and other					
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959							_					
Total entering conveyance systemsorganizations acre-feet	347 4,922,092	209 276,123	66 355 , 270	1,374,718	1,933,708	860,011	982,273					
From another drainage basinorganizations acre-feet	3 67 ,7 03		1 36,841	2 30,862	:::	:::	:::					
From drainage basin,			56									
From sources within basinorganizations scre-feet	322 4,854,389 303	202 276,123 190	318,429	1,343,856 51	1,933,708	860,011	982,273					
Surface waterorganizations scre-feet	4,733,940 27	270,224	304,632	1,331,013	1,846,108	860,011	981,963					
Ground waterorganizations acre-feet	120,449	5,899	13,797	12,843	87,600		310					
From other organizations in the basin organizations receiving	34 62,388	12 3,913	13 28,343	9 30,132	:::	:::	:::					
Total leaving conveyance systemsorganizations acre-feet	347 4,922,092	209 272,996	66 350,151	63 1,385,622	1,931,050	860,011	982,273					
Conveyance loss in basinorganizations acre-feet	261 1,153,487	153 37,162	60 74,475	41 233,398	656 ,91 6	150,139	5 151,536					
Conveyed to another drainsge basinorganizations acre-feet	1 4,364	:::		1 4,364	:::	:::	:::					
To drainage basin number				63								
Delivered for use in the basinorganizations acre-feet	346 3,764,241	208 235,834	66 275,676	1,147,860	1,274,134	709,872	830,737					
To farm irrigation water usersorganizations acre-feet	3,697,304	208 229,722 4	244,759	1,127,102	1,273,834	704,629	821,887					
To domestic water usersorganizations acre-feet	45 37,836 21	241	8,752	20,343	::: i	4,900	8,500					
For other useorganizations acre-feet	29,101	5,871	22,165	415	300	343	350					
Delivered to other singulation organisations delivering. organisations delivering. acre-feet	10 62,388	7,040	33,462	3 19,228	1 2,658							
SIZE OF ORGANIZATION, 1959	,						}					
Size of organization (number of farm irrigation water users):							1					
Noneorganizations 1 to 3 water usersorganizations	5 105	1 102	1 3	2	1	:::	:::					
4 to 9 water usersorganizations 10 to 29 water usersorganizations	84 70	73 26	7 27	16	:::	2	1 1 3					
30 to 99 water usersorganizations 100 to 299 water usersorganizations	47 18	5 2	20	10	:::	:::	l					
300 to 999 water usersorganizations 1,000 or more water usersorganizations	13			10	2	5	1 1					
Size of organization (acre-feet of water delivered directly to farms):												
Noneorganizations 1 to 299 acre-feetorganizations	5 93	1 83	1 6	2 4		:::	 i					
300 to 999 acre-feetorganizations 1,000 to 2,999 acre-feetorganizations	99 73	73 40	15 16	16			i 1					
3,000 to 9,999 acre-feetorganizations 10,000 to 29,999 acre-feetorganizations	46 23	2	21 7	12	:::	1 2	2 2					
30,000 to 99,999 acre-feetorganizations 100,000 or more acre-feetorganizations	6 5	1		5 2	2	2	"1					
Size of organization (acre-feet of water conveyed):					,							
Noneorganizations 1 to 299 acre-feetorganizations	3 78	73	3	2 2		:::	:::					
300 to 999 acre-feetorganizations 1,000 to 2,999 acre-feetorganizations	101 69	40	12	14	:::		1 2					
3,000 to 9,999 acre-feetorganizations 10,000 to 29,999 acre-feetorganizations	53 31	2	22 14	15 12 7		1 2	3					
30,000 to 99,999 acre-feetorganizations 100,000 or more acre-feetorganizations	10	2	1	2	2	2	1					

Water was transferred to the basin and released to natural stream channels in excess of the quantity of surface water withdrawn by irrigation organizations. The net effect was to increase the available surface water in the basin or State.

			Columbia Ri	ver below Snake R	iver (I-B)		
Item		Mait	ual		U. S. Bureau	of Reclamation	Commercial.
(For definitions and explanations, see text)	All types	Unincorporated	Incorporated	District	Projects and storage systems operated by bureau	Operated by water users	Indian, State, city, and other
Errigation organizationsorganizations 1959	70 97	52 75	8 11	10 11			
ervice area, 1959:	71	1	2.1				
Area served, as reported by organizationsacres Area irrigated, as reported	29,860	9,411	13,215	7,234			
by organizationsacres	28,371	8,984	12,735	6,652		•••	
Ater users served, 1959, total. water users. Farm irrigation water users: water users. Residental water users. water users. Other water users. water users.	1,422 1,109 313	368 368	201 196 5	853 545 308	:::		
TYPE OF SERVICE, 1959							
All water directly from surface and ground				10			
water sourcesorganizations. Total water conveyedacre-feet Water deliveredacre-feet To farm and residential users	70 132,111 110,197	37,274 35,989	60,960 46,940	33,877 27,268	:::	•••	:
onlyorgenizations	70 110,197	52 35,989	8 46,940	10 27,268			
To farm and residential users and other irrigation organizationsorganizations Water to farm and residential	***						
usersacre-feet							
Water to other irrigation organizationsacre-feet To other irrigation organizations							
onlyorganizations	•••	:::	:::	:::	:::		:
Part of water from other organizations organizations Total water conveyed				:::		:::	:
From surface and ground water sourcesacre-feet							
From other irrigation organizationsacre-feet Water deliveredacre-feet To farm and residential users		:::	:::	:::	:::		:
onlyacre-feet		:::	:::		:::		:
To farm and residential users and other irrigation organizationsorganizations Water to farm and residential							
usersacre-feet							
Water to other irrigation organizations							
onlyorganizations acre-feet		:::		:::		:::	:
All of water from other organizationsorganizations	•••						
Total water conveyedacre-feet Water deliveredacre-feet		:::	:::	:::	:::	:::	;
To farm and residential users onlyorganizations							,
acre-feet To farm and residential users and other irrigation organizationsorganizations							
Water to farm and residential		1	ĺ				Ι.
water to other irrigation	•••						
organizationsacre-feet To other irrigation organizations	•••						
onlyorganizations acre-feet			:::		:::	:::	:
No water conveyedorganizations							
WATER FROM OTHER SOURCES Organizations reporting no water from other sources used on the land served by the							
organizationorganizations acres served	64 17,957	50 8,917	5,015	4,025	:::	:::	:
acres irrigated water delivered to farms (acre-feet)	16,768 70,811	8,490 35,147	4,535 20,711	3,743 14,953	1 :::	:::	1 :
acre-feet per acre Organizations reporting water from other sources used on land served by the	4.2	4.1	4.6	4.0			
organizationorganizations	16 103	2	2 8,200	7,409	:::		:
acres served acres irrigated	16,103 15,524	494	8,200	6,830			
water delivered to farms (acre-feet) acre-feet per acre	54,292 3.5	842 1.7	26,220 3.2	27,230 4.0	:::	:::	:
NEW CAPITAL INVESTMENT, 1950-1959 Expenditures for additional new works and equipment for irrigation and drainage,	9	2	1	6			
January 1, 1950-December 31, 1959organizations By U. S. B. dollara By water users organizations	121,541		28,,000				

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

			Columbia Ri	ver below Snake R	iver (I-B)		
Item (For definitions and explanations, see text)		Must	cual		U. S. Bureau o	of Reclamation	Commercial.
,	All types	Unincorporated	Incorporated	District	Projects and storage systems operated by bureau	Operated by water users	Indian, State, city, and other
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959							
Total entering conveyance systemsorganizations acre-feet	70 132,111	52 37,274	8 60,960	10 3 3, 877	:::	:::	::
From another drainage basinorganizations	15,364			25.00			
From drainage basin	10,364	:::		15,364	:::		:
From sources within basinorganizations acre-feet	69	52	8	9			
Surface waterorganizations	116,747 67	37,274 51	60,960 8	18,513 8	:::		::
acre-feet Ground waterorganizations. acre-feet	115,564 5 1,183	36,587 4 687	60,960	18,017 1 496			::
From other organisations in the basin organisations receiving							
octo-feet Total leaving conveyance systemsorganizations	70	52	8	10			
acre-feet	132,111	37,274	60,960	33,877		•••	••
Conveyance loss in basinorganizations acre-feet	40 17,550	27 1,285	14,020	6 2,245	:::	:::	::
Conveyed to another drainage basinorganizations acre-feet	1 4,364			1 4,364			
To drainage basin numberD. B. No	4,504			**,50*	:::		::
Delivered for use in the basinorganizations acre-feet	70 110,197	52 35,989	8 46,940	10 27,268	:::		::
To farm irrigation water usersorganizations acre-feet	70	52 35,989	46,931	10 26,499	:::		::
To domestic water usersorganizations acre-feet	778	33,707	1 9	3 769	:::		::
For other useorganizations acre-feet	***			***			::
Velivered to other impation organizations delivering acre-feel	•••				:::		::
SIZE OF ORGANIZATION, 1959							
Size of organization (number of farm irrigation water users):							
Noneorganizations 1 to 3 water usersorganizations	13	13	:::	:::	:::		::
4 to 9 water usersorganizations 10 to 29 water usersorganizations	30 21	28 10		2 5	:::		:
30 to 99 water usersorganizations 100 to 299 water usersorganizations	5	1	2	2	:::	:::	::
300 to 999 water usersorganizations 1,000 or more water usersorganizations	"i			i			
Size of organization (scre-feet of water delivered directly to farms):	***						
None organizations 1 to 299 acre-feet organizations	23	22		_i			
300 to 999 acre-feetorganizations 1,000 to 2,999 acre-feetorganizations	23 15	20 8		3 4	:::	:::	
3,000 to 9,999 acre-feetorganizations	6	2	3	1			
10,000 to 29,999 acre-feetorganizations 100,000 to 99,999 acre-feetorganizations 100,000 or more acre-feetorganizations	3	:::	2				
Size of organization (acre-feet of water conveyed):							
Noneorganizations 1 to 299 acre-feetorganizations	21	21		:::	:::		::
300 to 999 acre-feetorganizations	24	20	:::	4]		
1,000 to 2,999 acra-feetorganizations 3,000 to 9,999 acra-feetorganizations	14	9 2	2 3	3 2	:::		::
10,000 to 29,999 scre-feetorganizations 30,000 to 99,999 scre-feetorganizations	4		3	1	:::		
100,000 or more scre-feetorganizations		:::	:::	:::] ::: }		::

WASHINGTON

		Columb	ia River above Sm	ake River exclud	ing Yakima River (I-C)	
Item (For definitions and explanations, see text)		Mut	ial		U. S. Bureau c	f Reclamation	Commercial.
(For delinitions and explanations, see text)	All types	Unincorporated	Incorporated	District	Projects and storage systems operated by hureau	Operated by water users	Indian, State, city, and other
Irrigation organizationsorganizations 1959 1949	149 171	81 98	25 29	39 40	1	4	
Service area, 1959: Area served, as reported by organizations	422,307	13,720	12,376	86,553	307,855	27,069	1,80
Area irrigated, as reported by organizationsacres	354,562	10,349	10,013	66,071	267,085	13,750	1,04
Water users served, 1959, total	31,738 13,211 18,509 18	548 479 69	4,705 1,160 3,545	23,931 9,023 14,895	2,496 2,491 	7,331 804 6,527	51 51
TYPE OF SERVICE, 1959							
All water directly from surface and ground surfer sources	121 2,099,024 1,422,531	69 48,309 39,376	19 104,980 64,800	29 333,715 251,938	1,601,900 1,060,000	4 83,199 57,649	10,12 6,41
acre-feet	1,343,988	38,036	45,453	194,082	1,060,000	57,649	6,41
To farm and residential users and other irrigation organizationsorganizations	4	1	1	2			
users	45,411 14,825	600 740	135 905	44,676 13,180			
To other irrigation organizations onlyorganizations acre-feet	18,307		1 18,307		:::		::
Part of water from other organizations organizations Total water conveyed acre-feet From surface and ground water	11 38,145	2,070	3 8,099	3 27,976			::
sources	12,194 25,951 36,280	1-185 2,255 1,863	1,909 6,190 6,703	10,470 17,506 27,714	:::		::
only	10 20,332	1,863	6,703	11,766			::
To farm and residential users and other irrigation organizationsorganizations	20,332			11,700			
Water to farm and residential useraacre-feet Water to other irrigation	9,900			9,900 6,048			
organizationsacre-feet To other irrigation organizations onlyorganizations							
acre-feet All of water from other organizationsorganizations Total water conveyedacre-feet	16 28,977	7 1,658	3 1,853	6 25,466			
Water delivered	28,725	1,600	1,659	25,466			
To farm and residential users and other	27,970	1,600	904	25,466			
irrigation organizationsorganizations Water to farm and residential	1 505		1 505				
usersacre-feet Water to other irrigation organizationsacre-feet	250		250				
To other irrigation organizations onlyorganizations							
No water conveyedorganizations	1	:::	:::	1	:::	***	::
WATER FROM OTHER SOURCES Organizations reporting no water from other sources used on the land served by the organization	130	74	20	32	1	3	
acrea served acrea irrigated water delivered to farms (acre-feet) acre-feet per acre	408,059 342,839 1,401,938 4.1	12,161 9,950 40,521 4.1	10,559 8,203 44,755 5.5	75,681 56,557 250,245 4.4	307,855 267,085 1,060,000 4.0	22,031 9,750 42,949 4.4	1,80 1,04 6,41 6.
Organizations reporting water from other sources used on land served by the organization	17 14,248	7	1,817	6 10,872		1 5,038	::
acres irrigated water delivered to farms (acre-feet) acre-feet per acre	11,723 31,014 2.6	399 1,340 3.3	1,810 4,616 2.5	9,514 25,058 2.6	:::	4,000 11,400 2.8	ii ii
NEW CAPITAL INVESTMENT, 1950-1959 Expenditures for additional new works and equipment for irrigation and drainage,	57	22	22.2	20	1		
January 1, 1950-December 31, 1959organizations. By U. S. B. R	57 5,103,572 186,862,505	93,359	567,537	5,103,572 675,377		57,103,662 105,260	26,23

	Columbia River above Snake River excluding Yakima River (I-C)									
Item (For definitions and explanations, see text)		Mut	ual		U. S. Bureau o	of Reclamation	Commercial,			
(100 octaniosom and explanations, see text)	All types	Unincorporated	Incorporated	District	Projects and storage systems operated by bureau	Operated by water users	Indian, State, city, and other			
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959										
Total entering conveyance systemsorganizations acre-feet	148 2,126,716	81 48,124	25 106,889	38 359,683	1,601,900	83,199	10,120			
From another drainage basinorganizations acre-feet From drainage basin	117,095		1 36,841	80,254		64,756 				
From sources within basinorganizations	130	74	21	31	1	3	3			
acre-feet Surface waterorganizations	2,009,621 117	48,124 67	70,048 18	279,429 28	1,601,900	18,443 3	10,120			
acre-feet Ground waterorganizations acre-feet	1,898,310 15 111,311	46,123 8 2,001	58,651 3 11,397	269,116 3 10,313	1,514,300 1 87,600	18,443	10,120			
From other organizations in the basin organizations receiving	26	12	6	8	67,000					
acre-feet Total leaving conveyance systemsorganizations	39,430 148	3,913	8,043	27,474						
acre-feet	2,126,716	51,297	95,470	367,929	1,601,900	83,199	10,120			
Conveyance loss in basinorganizations acre-feet	101 676,375	9,183	21 39,922	21 81,967	541,600	25,550	3,703			
Conveyed to another drainage basinorganizations acre-feet										
To drainage basin number	•••			:::	:::	:::	:::			
Delivered for use in the basinorganizations	148 1,450,341	81 42,114	25 55,548	38 285,962	1,060,300	57,649	3 6,417			
To farm irrigation water usersorganizations	1,432,952	81 41,861	24 49,371	38 275,303	1,060,000	54,349	6,417			
To domestic water usersorganizations	20 15,154	3 238	7 4,329	10,587		2 3,300	7			
For other useorganizations acre-feet	2,235	1 15	1,848	1 72	300					
Delivered to other irrigation organizations delivering organizations delivering ocre-feet	7 39,430	1 740	3 19,462	3 19,228	:::	:::	:::			
SIZE OF ORGANIZATION, 1959										
Size of organization (number of farm irrigation water users):										
Noneorganizations 1 to 3 water usersorganizations	2 49	48	1 1	1	::: '		:::			
4 to 9 water usersorganizations 10 to 29 water usersorganizations	28 27	22 8	4 9	1 9		:::	1			
30 to 99 water usersorganizations 100 to 299 water usersorganizations	26 7	3	8 1	14 6	:::	2	1			
300 to 999 water usersorganizations 1,000 or more water usersorganizations	6		1	5 3			:::			
Size of organization (acre-feet of water delivered directly to farms):										
Noneorganizations 1 to 299 acre-feetorganizations	2 53	47	1 3	1 3			:::			
300 to 999 acre-feetorganizations 1,000 to 2,999 acre-feetorganizations	44 24	27	9	7			1 1			
3,000 to 9,999 acre-feetorganizations 10,000 to 29,999 acre-feetorganizations	15	i		8 7	:::	·	i			
30,000 to 99,999 acre-feet organizations. 100,000 or more acre-feet organizations.	2				1	1				
Size of organization (acre-feet of water conveyed):										
Noneorganizations 1 to 299 acre-feetorganizations	1 44	40		1 2						
300 to 299 acre-feetorganizations 1,000 to 2,999 acre-feetorganizations	44 47 23	31 8	9	2 7 10		2				
3,000 to 9,999 acre-feetorganizations	19 9	1	7	9	:::		1 2			
10,000 to 29,999 acre-feetorganizations 30,000 to 99,999 acre-feetorganizations	9 5 1	1	2	6 4	 'i	1				
100,000 or more acre-feetorganizations	1				1	• • • • • • • • • • • • • • • • • • • •				

Water was transferred to the basin and released to natural stream channels in excess of the quantity of surface water withdrawn by irrigation organizations. The net effect was to increase the available surface water supply in the basin or State.

			Υ	akima River (I-D)			
Item		Mut	ual		U. S. Bureau	of Reclamation	
(For definitions and explanations, see text)	All types	Unincorporated	Incorporated	District	Projects and storage systems operated by bureau	Operated by water users	Commercial, Indian, State, city, and other
Irrigation organizationsorganizations 1959	121 157	75 97	28 37	13 19	2 2	4	3 2
Service area, 1959: Area served, as reported by organizationsacres	(D)	32,277	(D)	203,411	72,511	162,009	136,682
Area irrigated, as reported by organizationsacres	(D)	30,833	(D)	193,280	66,094	156,162	129,629
Water users served, 1959, total. water users. Farm irrigation water users. water users. Residential water users. water users. Other water users. water users.	(D) (D) (D)	954 67 1 277 6	(D) (D) (D) (D)	13,977 7,738 6,141 98	1,045	6,459 5,833 625 1	2,728 2,728
TYPE OF SERVICE, 1959 All water directly from surface and ground							
water sourcesorganizations Total water conveyedacre-feet Water deliveredacre-feet To farm and residential users	(D) (D)	75 187,725 155,175	(D) (D)	988,464 781,874	331,808 216,492	841,568 651,880	953,753 810,470
onlyorganizations acre-feet	108 (D)	74 148,875	20 (D)	781,874		651 ,88 0	810,470
To farm and residential users and other irrigation organizationsorganizations Water to farm and residential	2		1		1		
useraacre-feet Water to other irrigation organizationsacre-feet	(D)		(D)		213,834		
To other irrigation organizations organizations acre-feet	1 (D)	1 6,300					
Part of water from other organizations	1 (D)	:::	1 (D)		:::		:::
From surface and ground water sourcesacre-feet. From other irrigation organizationsacre-feet Water deliveredacre-feet	(D) (D) (D)	:::	(D) (D) (D)			:::	
Water delivered	1 (D)		1 (D)				
acre-feet To farm and residential users and other irrigation organizationsorganizations	•••						
Water to farm and residential usersacre-feet water to other irrigation							
organizationsacre-feet To other irrigation organizations onlyorganizations							
acre-feet All of water from other organizationsorganizations							
Total water conveyedacre-feet	(D)	:::	(D)	2,658 2,127		:::	:::
onlyorganizations acre-feet To farm and residential users and other	(D)	:::	(D)	2,127	:::	:::	:::
irrigation organizationsorganizations Water to farm and residential							
usersacre-feet Water to other irrigation organizationsacre-feet							
To other irrigation organizations onlyorganizations acre-feet		:::	:::		:::	:::	:::
No water conveyedorganizations WATER FROM OTHER SOURCES	2			i	1		
Organizations reporting no water from other sources used on the land served by the							
organizationorganizations acres served acres irrigated water delivered to farms (acre-feet)	98 (D) (D) (D)	15,357 14,043 73,701	24 (D) (D) (D)	10 161,782 144,831 571,688	66,094 213,834	1 84,609 82,022 415,280	136,682 129,629 810,470
Organizatious reporting water from other sources used on land served by the organization	(D)	5.2	(D)	3.9	3.2	5.1	6.3
acres served acres irrigated water delivered to farms (acre-feet) acre-feet per acre	(D) (D)	16,920 16,790 75,171 4,5	(D) (D) (D)	60,800 57,540 247,150 4.3		57,400 54,140 235,000 4.3	
NEW CAPITAL INVESTMENT, 1950-1959 Expenditures for additional new works and equipment for irrigation and drainage, January 1, 1950-becember 31, 1959	48 (D) (D)	20 45,029	16 (p)	9 2,660,693 1,578,158	1,980,080	4 2,655,593 710,910	2,250,000

			Y	akima River (I-D)		
Item (For definitions and explanations, see text)		Mut	ua1		U. S. Bureau o	of Reclamation	
(FOI WELLINGTON MIN EXPLANAVELD) SEE SEAS)	All types	Unincorporated	Incorporated	District	Projects and storage systems operated by bureau	Operated by water users	Commercial, Indian, State, city, and other
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959			• • • • • • • • • • • • • • • • • • • •				
Total entering conveyance systemsorganizations acre-feet	119 (D)	75 187,725	28 (D)	12 988,464	331,808	841,568	953,753
From another drainage basinorganizations acre-feet		•••					:::
From drainage basin,	•••				:::	:::	:::
From sources within basinorganizations acre-feet	112 (D)	75 187,725	22 (D)	988,464	331,808	841,568	953,753
Surface waterorganizations acre-feet	108 (D)	71 184,514	22 (D)	986,430	331,808	841,568	953,753 953,753
Ground waterorganizations acre-feet	6 (D)	3,211	1 (D)	2,034		• • • •	
From other organizations in the basin organizations receiving	8 (D)		7 (D)	2,658			
Total leaving conveyance systemsorganizations acre-feet	119 (D)	75 181,425	28 (D)	12 991,122	329,150	841,568	953,753
Conveyance loss in basinorganizatious acre-feet	111 (D)	71 26,694	27 (D)	11 142,022	1 115,316	124,589	1 143,283
Conveyed to another drainage basinorganizations	1			1		1	
To drainage basin numberD. B. No	(D)	:::	:::	64,756	:::	64,756	:::
Delivered for use in the basinorganizations	117	74	28	11	1	3	3
acre-feet To farm irrigation water usersorganizations	(D) 117	154,731 74	(D) 28	784,344 11	213,834	652,223 3	810,470 3
acre-feet To domestic water usersorganizations	(D) 15	148,872 1	(D) 9	778,332 5	213,834	650,280 1	810,470
acre-feet For other useorganizations acre-feet	(D) 14 (D)	3 7 5,856	(D) 6 (D)	5,669 1 343		1,600 1 343	
Delivered to other singution organizations delivering acre-feet	3 (D)	6,300	1 (D)	:::	1 2,658	:::	:::
SIZE OF ORGANIZATION, 1959							
Size of organization (number of farm irrigation water users). Organizations. None	(D) (D) (D) (D) (D) (D) (D)	1 41 22 8 1 2	(D) (D) (D) (D) (D) (D) (D)	2 1 2 2 2 4	1 		 2 1
Size of organization (acre-feet of water delivered directly to farms):	(D) (D) (D) (D) (D) (D) (D)	1 14 26 26 6 1 1	(D) (D) (D) (D) (D) (D) (D)	2 1 4 1 3 2	1 	1 1 2	 2
Size of organization (acre-fect of water conveyed): organizations None. organizations None. organizations 300 to 999 acre-feet organizations 1,000 to 2,999 acre-feet organizations 3,000 to 9,999 acre-feet organizations 10,000 to 29,999 acre-feet organizations 30,000 to 99,999 acre-feet organizations 30,000 to 99,999 acre-feet organizations 00 organizations organizations	(D) (D) (D) (D) (D) (D) (D)	12 27 23 10 1 1 2	(D) (D) (D) (D) (D) (D) (D)	1 1 3 2 4	1 		

D Data not shown to avoid disclosure of information for individual organizations.

State Table 5.—NUMBER OF IRRIGATION ORGANIZATIONS, TYPE OF SERVICE, NEW CAPITAL INVESTMENT, AND WATER CONVEYED, BY SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUS OF 1959

		Washingto	n, total		Col	umbia River b		ver
Item (For definitions and explanations, see text)			Size of or	ganization, b	y total water	(1- conveyed	В)	
Per of organizations. TIPE OF SERVICE water directly from surface and ground ocurees. organizations. total water conveyed. acre-feet. To farm and residential users only. corganizations. To farm and residential users and other irrigation organizations. To farm and residential users and other irrigation organizations. To farm and residential users and other irrigation organizations. To farm and residential users and other irrigation organizations only. corganizations. water to farm and residential users and other irrigation organizations. corganizations. water to farm and residential users. corganizations. water to farm and residential users. corganizations. water to farm and residential users. corganizations. water to other irrigation organizations. corganizations. water to other irrigation organizations. corganizations. water to conveyed. corganizations. corganizations. water to farm and residential users only. corganizations. water to farm and residential users. corganizations. water to farm and residential users. corganizations. water to farm and residential users. corganizations. water to farm and residential users. corganizations. water to farm and residential users. corganizations. water to farm and residential users. corganizations. water to farm and residential users. corganizations. water to farm and residential users. corganizations. water to other irrigation organizations. corganizations. water to other irrigation organizations. corganizations. corganizations. cor	0-999 acre-feet	1,000- 9,999 scre-feet	10,000- 99,999 scre-feet	100,000 or more acre-feet	0-999 acre-feet	1,000- 9,999 acre-feet	10,000- 99,999 acre-feet	100,000 or more acre-fee
Number of organizationsorganizations	182	122	41	5	45	21	4	
All water directly from surface and ground sourcesorganizations	162	106	39	5	45	21	4	
Total water conveyed	61,029 54,680	352,144 303,726	948,023 728,890	3,536,669 2,634,002	15,274 14,781	57,616 53,5%	59,221 41,820	
acre-feet	162 54,680	103 295,046	637,977	2,417,510	14,781	53,596	41,820	
irrigation organizationsorganizations		2 735	3 45,426	213,834				
Water to other irrigation organizationsacre-feet		1,645	27,180	2,658		:::	:::	
To other irrigation organizations onlyorganizations acre-feet	:::	6,300	18,307					
Part of water from other organizationsorganizations	6 2,205	22,527	1 15,948					
From surface and ground water sourcesacre-feet	2,205 1 ₋₁₉₂ 2,397	1,790 20,737	7,131 8,817					
Water deliveredacre-feet	1,998	20,269	15,948					
acre-feet	1,998	20,269						
irrigation organizationsorganizations			9,900				:	
Water to other irrigation organizationsscre-feet			6,048					
acre-feet								
All of water from other organizationsorganizations Total water conveyedacre-feet	11 3,761	26,676	15,498		:::	:::		
Water deliveredacre-feet	3,509	19,008	15,498 1	:::		:::		
acre-feet	2,754	19,008	15,498		•••			
irrigation organizationsorganizations	1 505			:::		:::		
Water to other irrigation organizationsacre-feet	250							
acre-feet								
•	3							
Organizations reporting NO water from other sources used								
acres served	160 18,086	105 81,048	32 150,839	590,658	43 4,593	20 12,564	1 800	
	15,507	69,133	127,370	533,992	4,194	11,774	800	
on land served by the organizationorganizations	19 4,557	16 9,354	41.190	57,400	2 494	1 409	15,200	
acres irrigated	2,951	9,007	39,573	54,140	494	409	14,621	
Expenditures for additional new works and								
equipment for irrigation and drainage, January 1, 1950-December 31, 1959organizations	53	34	25	5	4	3	2	
dollars	1,022,502	2,770,995	7,577,039	189,397,818	35,166	38,375	48,000	
Total entering conveyance systems in basinorganizations	179	122	41	5	45	21	4	
From another drainage basinorganizations	60,837	353,934	970,652 3	3,536,669	15,274	57,616	59,221 1	
acre-feet	:::	:::	67,703	:::			15,364	
From natural sources within basinorganizations acre-feet	168 60,837	111 353,934	902,949	3,536,669	45 15,274	21 57,616	43,857	
acre-feet	152 54,375	109 338,365	892,131	3,449,069	43 14,091	21 57,616	43,857	
Ground waterorganizations	20 6,462	15,569	10,818	87,600	1,183	:::		
From other organizations in the basin	17 6,158	16 47,413	8,817					
Total leaving conveyance systemsorganizations	179	122	41	5	45	21	59,221	
Conveyance loss in basinorganizationa	66,745 116	393,402 104	927,934	3,534,011	15,274 19	57,616 17	- 4	
Conveyed to another drainage basinorganizations	6,663	50,320	194,480	902,024	493	4,020	13,037	
To drainage basin number	179	121	4,364		45	21	4,364	
acre-feet	60,082 179	343,082 121	729,090 40	2,631,987	14,781 45	53,596 21	41,820	
acre-feet	58,792	330,261 12	676,907	2,631,344	14,012	53,587	41,820	
acre-feet	1,145	4,797	31,894		769	9	:::	
acre-feet	145	8,024	20,289	643	:::	:::	:::	
acre-feet	250	7,945	, 51,535	2,658	:::	:::	:::	
All organizationsscre-feet	2.3	4.2	4.3	4.5	1.9	4.4	4.6	
on land served by the organizationorganizations	160	105	32	4	43	20	1	
acre-feet	3.4	4.2	4.3 ity of surface	4.5	3.1	4.4	7.0	

^{**}Bater was transferred to the basin and released to natural stream channels in excess of the quantity of surface water withdrawn by irrigation organizations. The net effect was to increase the available surface water supply in the basin or State.

State Table 5.—NUMBER OF IRRIGATION ORGANIZATIONS, TYPE OF SERVICE, NEW CAPITAL INVESTMENT, AND WATER CONVEYED, BY SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUS OF 1959—Continued

	Item (For definitions and explanations, see text)		River above Snak luding Yakima Riv (1-C)			Yakima (1	River -D)	
	(For definitions and explanations, see text)		Size o	of organization, h	y total water	conveyed		
		0-999 acre-feet	1,000-9,999 acre-feet	10,000 or more acre-feet	0-999 acre-feet	1,000- 9,999 acre-feet	10,000- 99,999 acre-feet	100,000 or more acre-feet
1	Number of organizationsorganizations TYPE OF SERVICE	92	42	15	45	55	17	4
2	All water directly from surface and ground sourcesorganizations Total water conveyedacre-feet	74	34	13	43	47	17	. 4
3 4 5	Water deliveredacre-feet	25,680 22,786	112,573 91,941	1,960,771 1,307,804	20,075 17,113	156,947 135,298	486,812 345,240	(D)
6	To farm and residential users onlyorganizations acre-feet	22,786	32 89,561	10 1,231,641	43 17,113	46 128,998	16 330,490	(D)
8	To farm and residential users and other irrigation organizationsorganizations		2	2			1	
9	Water to farm and residential userscre-feet Water to other irrigation organizationsacre-feet	:::	735 1,645	44,676 13,180			750 14,000	(D (D
li	To other irrigation organizations onlyorganizations acre-feet	:::		18,307		6,300		
12	Part of water from other organizationsorganizations Total water conveyedacre-feet	2 205	4 19,992	1 15,948		1 2,535		•••
13 14 15	From surface and ground water sources	2,205 1-192 2,397	5,255 14,737	7,131 8,817		1-3,465		:::
16 17	Water deliveredacrc-feet	1,998	18,334	15,948	:::	6,000 1,935	:::	• • • • • • • • • • • • • • • • • • • •
18	To farm and residential users onlyorganizations acre-feet	1,998	18,334	:::		1,935	:::	
19	To farm and residential users and other irrigation organizationsorganizations			1				
20	Water to farm and residential usersacre-feet Water to other irrigation organizationsacre-feet	:::		9,900 6,048	:::	:::		
22	To other irrigation organizations onlyorganizations					:::	:::	
24	All of water from other organizationsorganizations	11	4	1.		7		
25 26 27	Total water conveyedacre-feet Water deliveredacre-feet	3,761 3,509	9,718 9,718	15,498 15,498		16,958 9,290	:::	:::
28	To farm and residential users onlyorganizations acre-feet	10 2,754	9,718	1. 15,498		9,290	:::	
29	To farm and residential users and other irrigation organizations	1						
30 31	water to other irrigation organizationsacre-feet	505 250		:::		:::	:::	•••
32	To other irrigation organizations onlyorganizations							
34	No water conveyedorganizations	1			2			
	WATER FROM OTHER SOURCES							
35	Organizations reporting NO water from other sources used on land served by the organizationorganizations	81	37	12	36	45	14	3
36 37	acres served acres irrigated	8,183 6,617	32,219 26,517	367,657 309,705	5,310 4,696	33,506 28,422	90,662 79,011	(D) (D)
88	Organizations reporting water from other sources used on land served by the organizationorganizations	. 1			,,			
39	acres served	2,931	5 2,727	8,590	7 1,132	5,018	17,400	(D) (D)
~	acres irrigated NEW CAPITAL INVESTMENT, 1950-1959	1,771	2,400	7,552	686	4,998	17,400	(D)
11	Expenditures for additional new works and					İ		
12	equipment for irrigation and drainage, Jamuary 1, 1950-December 31, 1959organizations	32	13	12	17	16	11	4 (D)
-2	dollars WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959	245,817	2,670,997	189,049,263	1,876,256	40,037	3,972,112	(D)
;3	Total entering conveyance systems in basinorganizations	91	42	15	43	55	17	4
14 15	acre-fect From another drainage basinorganizations	25,488	117,828	1,983,400	20,075	153,482	486,812	(D)
6 7 8	From Drainage Basin numberD. B. No			117,095				
8	From natural sources within basinorganizations	80 25,488	38 117,828	12 1,866,305	43 20,075	48 153,482	17 486,812	 (D)
59 50 51 52 53 54 55	Surface waterorganizations	69 21,620	108,493	1,768,197	40 18,664	147,248	17 486,812	(D)
52 53	Ground waterorganizations	12 3,868	9,335	98,108	1,411	6,234	****	
54	From other organisations in the basinorganisations receiving	17	9,335 8 24,455	1		8		
56	Total leaving conveyance systemsorganizations	6,158 91	42	8,817 15	43	22,958 55	17	4
57 58	Conveyance loss in basinorganizations	31,396 57	140,638	1,954,682	20,075 40	170,140	472,612	(D)
59 50	Conveyed to another drainage basinorganizations	3,240	22,218	650,917	2,930	21,965	58,762	(D)
52	To drainage basin number D. B. No				:::	:::	64,756	
53 54 55	Delivered for use in the basinorganizations	91 28,156	42 118,420	15 1,303,765	43	54 148,175	16 349,294	(D) (D)
65 66	To farm irrigation water usersorganizations	28,136 91 27,730	118,420 42 115,807	1,303,765 14 1,289,415	17,145 43 17,050	138,051	16 323,749	(a)
66 57 58	To residential water usersorganizations acre-feet	21,130 9 313	2,541	12,300	17,050 2 63	2,172	7,491	
9 70 71	For other useorganizations acre-feet	2 113	1	2,050	1 32	7,952	18,054	1 (D)
71	Delivered to other impation organisationsorganizations delivering	1	72 2	4		7,952 1 6,300	14,000	1 (D)
-	AVERAGE DELIVERY OF IRRIGATION WATER PER ACRE, 1959	250	1,645	37,535		6,300	14,000	(D)
	Per acre irrigated, as reported by irrigation organization:						3.5	(p)
ا 🚙		1.3	4.0	4.1	3.2	4.1	3.7	(D)
73 74	All organizations acre-feet Organizations reporting NO water from other sources used on land served by the organization organizations	81	37	12	36	45	14	_

Nater was transferred to the basin and released to astural stream channels in excess of the quantity of surface water withdrawn by irrigation organizations. The net effect was to increase the available surface water aupply in the basin or State.

WYOMING

(367)

IRRIGATION OF AGRICULTURAL LANDS

State Table 1.-NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS.

=			North	Pacific Coast	(Snake River) ((-H)	Great Bas	in (Bear River)	(III-E)
				1	1				
	Item (For definitions and explanations, see text)	The State	Total	Gros Ventre River and Snake River direct	Henrys Fork (Upper Teton River)	Salt River	Total	Below Woodruff, Utah	Above Woodruff
				(1b, 5)	(3b)	(4)		(1b)	(le)
1	Total acres irrigated in Census year1959	1,469,911	65,000	26,000	3,000	36,000	51,000	20,000	31,000
2	1949 Irrigation organizationsorganizations 1959	1,474,835	66,689	24,979	2,447	39,263 61	55,903	27,402	28,501
4	1949	693	107	15	6	86	23	4 7	33 . 16
5	Service area, 1959: Farm area reported served by organizations	1,166,907	59,752	8,705	2,128	48,919	33,503	4,692	28,811
6	Farm area reported irrigated by organizationsacres 1959	1,057,540	54,498	8,497	2,047	43,954	33,503	4,692	28,811
7	Water users served, totalwater users 1959	10,347	821	57	20	744	229	39	190
8	Farm irrigation water userswater users 1959	8,962	728	57	20	651	229	39	190
9	Residential water userswater users 1959	1,373	93			93			
10	Other water userswater users 1959	12							•••
11	LAND IRRIGATED BY SOURCE OF WATER, 1959 Ground water sources	34,120	1,000			1,000			
12	Surface water sourcesacres	1,435,791	64,000	26,000	3,000	35,000	51,000	20,000	31,000
13	WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959 Total entering conveyance systems in basin organizations.	675	83	13	3,000	61	37	20,000	31,000
14	acre-feet	4,900,254	474,779	108,450	31,383	334,946	101,928	28,067	73,861
15 16	From another drainage basinorganizations acre-feet	10,320	:::	:::			1 2,880 Utah	:::	1 2,880 Utah
17	From drainage basin numberD. B. No				• • • •		III-E-lc		III-E-lc
18 19 20	From natural sources within basinorganizations acre-feet	638 4,889,934	81 474,779	13 108,450	8 31,383	60 334,946	37 99,048	28,067	70,981
21	Surface waterorganizations acre-feet	632 4,883,524	76 470,829	108,450	8 31,383	55 330,996	37 99,048	28,067	70,981
22 23 24	Ground waterorganizations acre-feet	6,410	3,950			5 3 , 950	:::	:::	:::
25	From other organizations in the basin	62 515,707	9 37,340	7 25,920	1 1,160	10.00			
26 27	Total leaving conveyance systemsorganizations	675 4,900,254	83 474,779	13 108,450	9 31,383	10,260 61 334,946	37 101,928	28,067	33 73,861
28 29	Conveyance loss in basinorganizations acre-feet	653 1,015,555	81 83,017	13 13,869	8 1,143	60 68,005	37 14,180	5,161	33
30 31	Conveyed to another drainage basin.organizations acre-feet	15	7 26,069		23,194	2,875	14,180 1 6,360		9,019
32	To drainage basin numberD. B. No	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	20,009		(1)	Idaho I-H-4	6,360		6,360 (2)
33 34	Delivered for use in the basinorganizations acre-feet	659 3,305,255	76 365,693	12 94,581	7,046	60 264,066	37 81,388	22,906	33 58,482
35 36	To farm irrigation water usersorganizations acre-feet	659 3,278,182	76 356,581	12 94,581	7,046	60 254,954	37 81,388	22,906	33 58,4 8 2
37 38	To residential water usersorganizations acre-feet	29 17,530	9,112	:::		8 9,112			:::
39 40	For other useorganizations acre-feet	9,543	:::		:::	:::	:::	:::	:::
41 42	Delivered to other irrigation organisations delivering	25 515,707	3 37,340	1 25,920	1 1,160	1 10,260			
43	Average delivery of irrigation water per acre irrigated as reported by organizationsacre-feet	3.1	6.5	11.1	3.4	5.8	2.4	4.9	2.0
44	NEW CAPITAL INVESTMENT, 1950-1959 Expenditures for additional new works and equipment for irrigation and drainage, Jan. 1, 1950-Dec. 31, 1959organizations	379	45	7	7	31	12	2	10
45	dollars	29,176,133	193,152	44,736	58,151	90,265	51,583	10,650	40,933

D Data not shown to avoid disclosure of information for individual organizations.

114,028 acre-feet to D. B. No. Idaho I-H-3b, 9,166 acre-feet to D. B. No. VI-D-5c.

1280 acre-feet to D. B. No. Utah III-E-1b, 6,180 acre-feet to D. B. No. Utah III-E-1b.

BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950

		Gulf o	California	(Green River)	(IV-E)					Mor	ouri River be stama, exclud cellowstome R	ing Platte s	ind	Ī
Total	Green River direct, Sandy	Yampa River (Little	Henrys Fork	Blacks Fork	La Barge	Pd 01		Cottonwood	Mississippi River		Ch	eyenne River		
Total	Creek, and Horse Creek	Snake River)	nemys rork	Blacks fork	Creek	Piney Creek	New Fork	Creek		Total ³	Total	Cheyenne River direct	Belle Fourche River	
	(1, 11, 16)	(8b)	(9)	(10)	(12)	(13)	(14)	(15)				(5a)	(5b)	-
271,000 260,924	57,000 48,407	17,000 15,653	19,000 21,005	74,000 74,494	6,000 6,101	43,000 31,559	40,000 48,307	15,000 15,398	1,083,000 1,091,319	19,000 12,169	19,000 11,969	12,000 9,523	7,000 2,446	3
67 40	7 7	13 4	5 3	26 17		4 4	12 5		499 524	2 2	2 2		2 2	3
169,048	28,159	14,104	7,710	55,265		4,091	59,719		904,604	(a)	(D)		(D)	5
143,783	24,020	14,104	6,376	50,003		3,629	45,651		825,756	(D)	(D)		(0)	6
625	103	77	29	267		11	138		8,672	(0)	(D)		(0)	7
604	103	77	29	246		11	138		7,401	(D)	(D)		(D)	8
21				21					1,259					10
2,000	1,000	•••		1,000					31,000	2,000	2,000	2,000		13
269,000	56,000	17,000	19,000	73,000	6,000	43,000	40,000	15,000	1,052,000	17,000	17,000	10,000	7,000	12
67 491,309	93 , 658	13 37,132	13,590	26 111,251	:::	4 13,648	12 222,030		488 3,832,238	(0)	(0)	:::	1 (D)	13
7,440	:::	:::	7,440	:::	:::		:::	:::	:::	:::	:::			15
			Útah IV-E-9											17
65 483,869	93,658	13 37,132	6,150	26 111,251	:::	13,648	12 222,030	:::	455 3,832,238	(0)	(0)	:::	(D)	18 19
65 483,869	7 93,658	13 37,132	6,150	26 111,251		13,648	12 222,030		454 3,829,778	(D)	(0)	:::	1 (D)	20
:::	:::		:::			:::	:::		2 2,460	:::	:::	:::	:::	22
800	:::	:::		800		:::		:::	52 477,567	:::	:::	:::		24 25
67 491,309	93,658	13 37 , 132	13,590	26 111,251	:::	13,648	12 222,030		488 3,832,238	1 (0)	(0)	:::	1 (D)	26 27
63 69,003	7 15,500	12 7,6 7 9	2,142	24 7,682	:::	2,120	12 33,880		472 849,355	1 (0)	1 (D)	:::	1 (D)	28 29
1 4,038	:::	1 4,038	:::				:::	:::	542,977	1 (D)	1 (D)		1 (0)	30 31
		Colorado IV-E-8b											S. Dak. VI-C-5b	32
67 418,268	7 78,158	13 25,415	5 11,448	26 103,569		11,528	12 188,150		479 2,439,906	1 (D)	1 (0)		1 (D)	33 34
67 418,058	78,158	13 25,415	11,448	26 103,359	:::	11,528	12 188,150	:::	479 2,422,155	1 (0)	1 (D)		1 (D)	35 36
2 2 1 0		:::	:::	2 210	:::	:::			19 8,208	:::	:::			37 38
	:::	:::	:::	:::	:::	:::		:::	9 9,543	:::	:::	:::	:::	39 40
1 800	:::		:::	800	:::	:::	:::	:::	21 477,567	:::	:::	:::		41 42
2.9	3.2	1.8	1.8	2.1		3.2	4.1		2.9	(D)	(D)		(D)	43
39 335,861	3 9,160	13,350	7,200	16 77,566	:::	7,350	9 221,235	:::	283 28,595,537	(D)	2 (D)		(D)	44 45

IRRIGATION OF AGRICULTURAL LANDS

State Table 1.-NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS,

				Platte Riv	er excluding	South Platte	e River (Nort	h Platte Ri	ver) (VI-D)		
			N	orth Platte	River direct				Larami	River	
	Item (For definitions and explanations, see text)	Tota1	Total	Belcw Guernsey Reservoir	Guernsey Reservoir to Alcova Dam	Above Alcova Dam	Horse Creek	Total	Laramie River direct	Chugwater Creek	Little Laramie River
				(3b)	(3c)	(3d)	(4)		(5a, c)	(5b)	(5d)
1 2	Total acres irrigated in Census year1959	498,000 543,673	165,000 189,062	67,000 82,223	49,000 49,248	49,000 57,591	22,000 23,452	162,000 180,094	105,000 111,646	11,000 13,382	46,000 55,066
3 4	Irrigation organizationsorganizations 1959	142 161	46 54	16 15	17 24	13 17	6 4	55 57	42 44	5 1	10 13
5	Service area, 1959: Farm area reported served by organizationsacres 1959	(0)	142,165	96,580	34,250	11,335	(D)	106,596	84,016	5,400	17,180
6	Farm area reported irrigated by organizationsacres 1959	(0)	140,095	95,729	33,031	11,335	(D)	100,504	82,684	5,400	12,420
7	Water users served, totalwater users 1959	(D)	1,454	1,181	241	32	(0)	594	527	39	28
8	Farm irrigation water users water users 1959	(D)	1,090	817	241	32	(D)	593	526	39	28
9	Residential water userswater users 1959	(D)	364	364							
10	Other water userswater users 1959	(D)						1	1		
	LAND IRRIGATED BY SOURCE OF WATER, 1959										
11	Ground water sourcesacres	14,000	5,000	3,000	1,000	1,000		6,000	4,000	1,000	1,000
12	Surface water sources	484,000	160,000	64,000	48,000	48,000	22,000	156,000	101,000	10,000	45,000
13 14	Total entering conveyance systems in basin	139 (D)	42 903,992	15 789,144	15 85,001	12 29,847	6 (D)	55 196,488	42 162, 7 37	5 7,834	10 33,751
15 16	From another drainage basinorganizations acre-feet	:::	3 8,470	2,470	6,000			•••		7,834	:::
17	From drainage basin number			(2)	VI-D-7					VI-0-5e	
18 19	From natural sources within basinorganizations acre-feet	112 (D)	38 895,522	12 786,674	14 79,001	12 29,847	6 (D)	30 196,488	20 162,737		10 33 ,7 51
20 21	Surface waterorganizations acre-feet	111 (D)	37 8 93,362	786,674	13 76,841	12 29,847	(a)	30 196,488	20 162,737	:::	10 33,751
22 23	Ground waterorganizations acre-feet	(D)	2,160		2,160		:::	:::	:::	:::	
24 25	From other organizations in the basin	29 (D)	3 174,718	3 174,718	:::		:::	26 42,452	23 35,671	3 6,781	:::
26 27	Total leaving conveyance systemsorganizations acre-feet	139 (D)	42 903,992	15 789,144	15 85,001	12 29,847	6 (D)	55. 196,488	42 162,737	7,834	10 33,751
28 29	Conveyance loss in basinorganizations acre-feet	130 (D)	37 112,231	13 85,994	14 21,816	10 4,421	5 (D)	53 32,265	23,766	1,170	7,329
30 31	Conveyed to another drainage basinorganizations acre-feet	(D) ²	536,991	536,991 Nebraska	:::		(D)	1 420	8,254	:::	:::
32	To drainage basin number			VI-D-3b			VI-0-3b		(3)		
33 34	Delivered for use in the basinorganizations acre-feet	138 (D)	254,770	15 166,159	15 63,185	25,426	(0)	163,803	130,717	6,664	26,422
35 36	To farm irrigation water usersorganizations acre-feet	138 (D)	253,311	164,700	15 63,185	25,426	(D)	55 158,914	125,828	6,664	10 26,422
37 38	To residential water usersorganizations acre-feet	(D)	1,459	1,459	:::		:::		:::	:::	:::
39 40	For other useorganizations	(D)		:::	:::		:::	4,889	4,889	:::	:::
41	Delivered to other urigation organizations	3 (0)	2 174,718	2 174,718	:::		:::	1 42,452	1 35,671	6,781	:::
43	Average delivery of irrigation water per acre irrigated as reported by organizationsacre-feet	(D)	1.8	1.7	1.9	2.2	(0)	1.6	1.5	1.2	2.1
44	NEW CAPITAL INVESTMENT, 1950-1959 Expenditures for additional new works and equipment for irrigation and drainage. Jan. 1, 1950-Dec. 31, 1959	53 (0)	18 8,435,981	5 2,760,15D	5 5,337,293	8 338,538	3 (D)	14 39,716	9 33,650	:::	5 6,D66

D Data not shown to avoid disclosure of information for individual organizations.

1Data for less than 3 organizations in Basin VI-C-3 and VI-F-1d are included in totals only for 1949.
2,050 acre-feet from D. B. No. VI-D-4, 42D acre-feet from D. B. No. VI-D-5a.
37,834 acre-feet to D. B. No. VI-D-5b, 42D acre-feet to D. B. No. VI-D-3b.

BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950-Continued

Latte Rive	er excluding	South Platt	e River (Nor	th Platte Ri	lver) (V1-D)-	-Continued		South Platte	River (VI-E)		Yel	lowstone Ri Big Horn Ri	ver excludi ver (VI-F)	ng
ı Bonte	La Prele	Sweetwater	Medicine Bow River	Spring	Encampment	Beaver		Lodgepole		Cache la	Total ¹	Po	owder River	
reek	Creek	River	and Pass Creek	Creek	Creek	Creek	Total	Creek	Crow Creek	Poudre River		Total	Powder River direct	Clear Creek
(6)	(7)	(8)	(9, 10)	(11)	(12)	(13)		(2)	(5)	(6)			(2a)	(2b)
6,000 8,993	11,000 11,532	24,000 12,198	89,000 89,428	2,000 2,507	11,000 18,707	6,000 7,700	27,000 18,452	10,000 9,677	13,000 5,054	4,000 3,721	114,000 113,086	54,000 50,844	9,000 7,168	31,000 25,639
8	6	3 3	10 14	3	9 14	:::		:::	:::	:::	140 139	75 73		5° 5:
1,365	3,465	1,347	26,375	2,689	9,081						124,124	59,460		43,88
1,190	2,835	1,242	25,125	2,689	8,132						106,708	48,626		34,37
14	24	10	46	9	31						1,010	283		21
14	24	10	48	9	30						1,007	282		21
				•••							2			
					1		•••				1	1		
1,000			2,000				11,000	5,000	6,000					
5,000	11,000	24,000	87,000	2,000	11,000	6,000	16,000	5,000	7,000	4,000	114,000	54,000	9,000	31,00
8 3,082	6 10,534	3 2,563	10 53,638	3 3,634	9 22,472						134 320,884	70 131,373		94,38
	1,000					:::			:::	-::				
	VI-D-6													
3,082	6 9,534	2,563	10 53,638	3 3,634	22,472						134 320,884	70 131,373	:::	94,3
8	6	3	10	3	9						134	70		
3,082	9,534	2,563	53,638	3,634	22,472					:::	320,584 1 300	131,073 1 300		94,0
											7 19,313			:
	6 10,534	2,563	10 53,638	3 3,634	9 22,472						134	70		94,3
3,082 7 594	10,554 6 1,551	3 687	10 7,722	3,634	8 2,964						132 73,354	69 23,990		16,7
1	1		,,,,,								2	1		
1,000 VI-D-7	6,000 VI-D-3e										2,570	5,160		5,10 Monta VI-F-
7	6 2,983	1,876	10 45,916	3 3,421	9						128 244,960	67 102,223		72,5
7	6 2,983	1,876	10 45,916	3,421	9 17,456						128 244,100	67 102,221		72,5
											1 858			:
					2,052						1 2	1 2		
				:::		:::					7 19,313			::
1.3	1.1	1.5	1.8	1.3	2.1						2.3	2.1		2
			_	_							201			4
5,500	9,565	1,000	11,700	1,450	21,700	:::	:::	:::		:::	104 615,809	445,108	:::	356,06

State Table 1.-NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950-Continued

		Yell	owstone River	excluding Big E	dorn River (V	I-F)-Contin	1ed	Big E	lorn River (VI	(-G)
		Powder River	Continued	T	ongue River					
	Item (For definitions and explanations, see text)	Crazy Woman Creek	Middle Fork	Total	Tongue River direct	Goose Creek	Clarks Fork	Total ¹	Big Horn River direct	Shoshone River
		(2c)	(24)		(3a)	(3b)	(4a)		(1)	(3)
1 2	Total acres irrigated in Census year	10,000 10,377	4,000 7,660	47,000 48,777	21,000 18,030	26,000 30,747	13,000	425,000 403,939	82,000 69,688	127,000 115,627
	Irrigation organizationsorganizations 1959	10,577	8	57	30	27	9	215	26	115,627
4	1949	9	8	56	30	26	10	222	31	14
5	Service area, 1959: Farm area reported served by organizationsacres 1959	7,977	7,601	56,195	24,610	31,585	8,469	480,454	89,537	149,198
6	Farm area reported irrigated by organizationsacres 1959	7,215	7,041	49,733	20,778	28,955	8,349	431,236	84,916	138,464
7	Water users served, totalwater users 1959	28	44	684	230	454	43	5,455	853	2,564
8	Farm irrigation water userswater users 1959	28	44	682	230	452	43	4,553	832	1,925
9	Residential water userswater users 1959			2		2		893	17	639
10	Other water userswater users 1959			• • •				9	4	
11	IAND IRRIGATED BY SOURCE OF WATER, 1959 Ground water sources							4,000	1,000	
12	Surface water sources	10,000	4,000	47,000	21,000	26,000	13,000	421,000	81,000	127,000
12	WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959	10,000	4,000	47,000	22,000	20,000	2,000	,	01,000	111,000
13 14	Total entering conveyance systems in basinorganizationsacre-feet	10 10,066	8 26,919	56 122,576	29 52,197	27 70,379	9 72,095	214 2,310,455	26 578 , 676	18 793,722
15 16	From another drainage basinorganizations acre-feet			5,160	1				2	
17	From drainage basin numberD. B. No			2,160	5,160 VI-F-2b				116,655	
18	From natural sources within basisorganizations	10	8	55	28	27	9	208	23	17
19	acre-feet	10,066	26,919	117,416	47,037	70,379	72,095	2,310,455	462,021	793,722
20 21 22	Surface waterorganizations acre-feet Ground waterorganizations	10,066	26,919	117,416	28 47,037	70,379	72,095	208 2,310,455	462,021	793,722
23	acre-feet		:::			:::		:::	:::	:::
24 25	From other organizations in the basinorganizations receiving		:::	7 19,313	8,181	5 11,132		16 241,084	3 35,200	92,308
26 27	Total leaving conveyance systemsorganizations acre-feet	10 10,066	26,919	56 122,576	29 52,197	27 70,379	72,095	214 2,310,455	26 578,676	18 793,722
28 29	Conveyance loss in basinorganizations Bore-feet	10 1,846	8 5,434	55 24,851	29 9,367	26 15,484	9 24,513	209 616,117	26 156,574	17 224,330
30 31	Conveyed to another drainage basin.organizatious acre-feet			280	1 280		2.290	1 216		1 216
32	To drainage basin number			280	Montana VI-F-3a		Montans VI-F-4a	210		Montana VI-G-3
33 34	Delivered for use in the basinorganizations	10	8	52 97.4ú5	29	23	9	212	26	18 569,176
35 36	acre-feet To farm irrigation water usersorganizations acre-feet	8,220 10 8,220	21,485 8 21,485	97,445 55 96,587	42,550 29 42,550	54,895 26 54,037	45,292 9 45,292	1,694,122 212 1,685,631	422,102 26 419,718	569,176 18 567,583
37 38	To residential water usersorganizations		21,407	1 858	42,330	1 858	42,252	1,005,051 15 5,891	2 564	1,593
39 40	For other useorganizations						:::	6 2,600	1 1,820	
41	Delivered to other impation									
42	organizationsorganizations delivering acre-feec	:::	:::	7 19,313	8,181	11,132	:::	241,084	35,200	92,308
43	Average delivery of irrigation water per scre irrigated as reported by organizationsacre-feet	1.1	3.1	1.9	2.0	1.9	5.4	3.9	4.9	4.1
44	NEW CAPITAL INVESTMENT, 1950-1959 Expanditures for additional new works and equipment for irrigation and drainage, Jan. 1, 1950-Dec. 31, 1959organizations dollars	6 34,362	7 54,686	40 155,701	· 21,911	17 133,790	15,000	124 16,327,116	2,578,711	12 2,519,542

Little Horn River VI-C-2 not shown separately but data are included in total only for 1949. 214,335 acre-feet from D. B. No. VI-G-7, 102,320 acre-feet from D. B. No. VI-G-5.

WYOMING 373

State Table 1.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Continued

				Bi	g Horn River (V	I-G) -Continued			
							Wind R	iver	
	Item (For definitions and explanations, see text)	Shell Creek	Greybull River	Norwood Creek	Owl Creek	Total	Below Crowheart gage	Above Crowheart gage	Little Wind River, including Popo Agie River
		(4)	(5)	(6)	(7)		(8a)	(8b)	(8e)
1 2	Total acres irrigated in Census year	8,000 10,167	43,000 49,883	16,000 17,715	13,000 11,385	136,000 128,337	86,000 NA	8,000 NA	42,000 40,219
3	Irrigation organizationsorganizations 1959 1949	19 18	35 41	35 45	20 18	65 62	9 NA	II NA	45 44
5	Service area, 1959: Farm area reported served by organizations	10,564	46,803	13,231	14,415	156,706	88,642	17,364	50,700
6	Farm area reported irrigated by organizationsacres 1959	10,236	42,726	11,890	7,049	135,955	83,327	14,925	37,703
7	Water users served, totalwater users 1959	138	295	172	84	1,349	762	115	472
8	Farm irrigation water userswater users 1959	138	295	107	84	1,172	654	114	404
9	Residential water userswater users 1959			65		172	107		65
10	Other water userswater users 1959					5	1	1	3
	LAND IRRIGATED BY SOURCE OF WATER, 1959		2,000			1,000			1,000
11	Ground water sourcesacres	8,000	41,000	16,000	13,000	135,000	86,000	8,000	41,000
12	WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959	0,000	41,000	10,000	15,000	155,000	00,000		,
13 14	Total entering conveyance systems in basin	19 47,534	35 267,894	35 80,374	20 : 24,372	64 655,252	8 381,242	11 95,698	45 178,3 1 2
15 16	From another drainage basinorganizations acre-feet		:::	:::	1 20,714	:::	:::	:::	:::
17	From drainage basin numberD. B. No				VI-G-8a				
18 1 9	From natural sources within basinorganizations acre-feet	19 47,534	267,894	35 80,374	18 3,658	655,252	381,242	95,698	42 178,312
20 21	Surface waterorganizations acre-feet	19 47,534	35 267,894	35 80,374	18 3,658	655,252	8 381,242	11 95,698	178,312
22 23	Ground waterorganizations acre-feet	:::	:::	:::	:::	:::	:::	:::	:::
24 25	From other organizations in the basin	•••		:::	20,714	10 92,862	79,137	:::	9 13,725
26 27	Total leaving conveyance systemsorganizations acre-fect	19 47 , 534	35 267,894	35 80,374	20 24,372	64 655,252	381,242	11 95,698	178,312
28 29	Conveyance loss in basinorganizations acre-feet	18 6,493	32 28,448	35 15,503	19 2,121	63 182,648	136,311	11 15,966	30,371
30 31	Conveyed to another drainage basinorganizations acre-feet		102,320		1 14,335	20,714	20,714	:::	:::
32	To dralnage basin numberD. B. No		VI-G-1		VI-G-1		VI-G-7		
33 34	Delivered for use in the basinorganizations acre-feet	19 41,041	33 137 , 126	35 64,871	19 7,916	63 451,890	224,217	11 79,732	45 147,941
35 36	To farm irrigation water usersorganizations acre-feet	19 41,041	33 137,126	35 64,724	19 7,916	63 447,523	7 222,487	11 79,682	145,354
37 38	To residential water usersorganizations acre-feet	:::	:::	1 147	:::	8 3,587	1,680		1,907
39 40	For other useorganizations acre-feet	:::	:::			780	50	50	680
41	Delivered to other impairon organizations		:::		20,714	7 92,862	1 79,137		13,725
43	irrigated as reported by organizationsacre-feet	4.0	3.2	5.4	1.1	3.3	2.7	5.3	3.9
44	equipment for irrigation and drainage, Jan. 1, 1950-Dec. 31, 1959organizations	13 65,506	20 127,066	23 42,625	8 619,696	35 10,373,970	9,774,369	7 201,870	21 397,731

State Table 2.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950

Item (For definitions and explanations, see text)	Wyoming, total	Snake River above American Falls, Idaho	Bear River and Green River	Platte River	Yellowstone River direct, above Livingston, Clarks Fork direct, and Big Horn River	Yellowstone River excluding Big Horn River and Clarks Fork
		(I-H)	(III-E and IV-E)	(VI-D and VI-E)	(VI-F-ld, 4a, and VI-G)	(VI-F)
Irrigation organizations, total numberorganizations 1959	686 693	83 107	104 63	142 161	224 232	131 129
Area irrigated as reported by organizationsacres 1959	1,057,540 839,939	54,498 54,310	177,286 123,791	(D) (D)	439,585 359,237	98,359 75,181
Farm water users served directlywater users 1959	8,962	728	833	(D)	4,596	964
Total water conveyedacre-feet 1959	5,415,961	512,119	594,037	(D)	2,623,634	268,102
TYPE OF ORGANIZATION Mutual:						
Unincorporatedorganizations 1959 1949 Farm area irrigated directlyacres 1959 Farm water users served	521 538 334,916	69 90 31,542	80 41 67,092	113 132 (D)	161 175 64,838	97 100 47,061
directlywater users 1959 Total water conveyedacre-feet 1959	2,358 1,161,358	436 298,862	339 231,306	(D)	574 266,152	466 115,326
Incorporatedorganizations 1959 Farm area irrigated directlyacres 1959	113 120 283,851	12 15 15,895	18 18 59,431	15 20 (D)	34 38 112,491	3- 21 51,29
Farm water users served directlywater users 1959 Total water conveyedacre-feet 1959	2,503 1,303,796	220 158,197	298 163,193	(D)	1,099 719,351	50 152,77
Districtorganizations 1959 1949 Farm area irrigated directlyacres 1959	37 27 (D)	2 1 (D)	6 3 50,763	9 7 (D)	20 16 191,949	
Farm water users served directlywater users 1959 Total water conveyedscre-feet 1959	(D) (D)	(D)	196 199,538	(D) (D)	2,431 1,233,492	
U.S. Bureau of Reclamation; projects and storage systems operated by bureauorganizations 1959	7 5	_i		3 2	3 2	::
Farm water users served directly	40,540 204 210,089	•••		***	40,540 204 210,089	
U. S. Bureau of Reclamation, operated by uater users	12 NA	 NA	1	4	7	••
Farm area irrigated directly acres 1959	190,769		(D) (D)	NA (D) (D)	NA 104,560 1,091	
Total water conveyedacre-feet 1959	1,679,308		(D)	(ā)	728,958	::
U. S. Bureau of Indian Affairsorganizations 1959 1949 Farm area irrigated directlyacres 1959 Farm water users served	6 1 29,767		•••		6 1 29,767	::
directlywater users 1959 Total water conveyedscre-feet 1959	288 194,550	•••			288 194,550	::
Commercialorganizations 1959 1949 Farm area irrigated directlyacres 1959 Farm water users served	1 2 (D)	•••	1 	1 (D)		•••
directly water users 1959 Total water conveyedacre-feet 1959	(D) (D)			(D)	:::	
State						•••
farm water users served directlywater users 1959 Total water conveyedacre-feet 1959	:::				:::	•••
Cityorganizations 1959 1949 Farm area irrigated directlyacres 1959	1 (D)	•••	•••	1 (D)	:::	•••
Farm water users served directlywater users 1959 Total water conveyedacre-feet 1959	{D D		:::	{D D	:::	•••

 $\ensuremath{\mathsf{D}}$ Data not shown to avoid disclosure of information for individual organizations. NA Not available.

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State Table 2.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Continued

Item (For definitions and explanations, see text)	Wyoming, total	Snake River above Americen Falls, Idaho	Bear River end Green River	Platte River	Yellowstone River direct, above Livingston, Clarke Fork direct, and Big Horn River	Yellowstone River excluding Big Horn River and Clarks Fork
		(I-H)	(III-E and IV-E)	(VI-D and VI-E)	(VI-F-ld, 4e, and VI-C)	(VI-F)
TYPE OF SERVICE, 1959						
All water directly from surface and ground water sources	613 4,836,975 3,475,311	74 455,699 353,678	103 589,277 496,172	110 1,172,425 624,310	207 2,400,740 1,823,345	118 214,994 177,230
users onlyorganizations acre-feet	2,476,965	288,258	492,041	299,867	1,236,458	159,765
To farm and residential users and other irrigation organizations water to farm and residential	17	2	1	3	10	1
usersacre-feet	488,759	28,080	3,331	107,273	345,803	4,272
Water to other irrigation organizationsacre-feet To other irrigation organizations	455,328	11,420	800	217,170	220,370	5,568
onlyorganizations acre-feet	54,259	25,920			20,714	7,625
Part of water from other organizations	27 309,907	7 45,000	4,760	2 42,020	10 165,019	53,108
sourcesacre-feet	63,279	19,080	3,960	24,634	1-18,190	33,79
From other irrigation organizationsacre-feet Water deliveredacre-feet To farm and residential	246,628 230,335	25,920 40,500	800 4,284	17,386 35,813	183,209 107,989	19,31 41,74
users onlyorganizations acre-feet	25 219,938	7 40,500	1 4,284	2 35,813	107,989	31,35
To farm and residential users and other irrigation organizationsorganizations Water to farm and residential	2					
usersacre-feet Water to other irrigation	4,277				***	4,27
organizationsacre-feet To other irrigation organizations	6,120				•••	6,12
onlyorgenizations acre-feet				:::	:::	::
All of water from other organizations	35 269,079 105,773	11,420 8,855		27 199,784 50,354	57,875 46,564	
users onlyorganizations acre-feet	35 105,773	8,855	:::	27 50,354	46,564	::
To farm and residential users and other irrigation organizationsorganizations						
usersacre-feet Water to other irrigation						
organizationsacre-feet To other irrigation organizations						
onlyorganizations acre-feet						::
No water conveyedorganizations	11			3	1	
WATER FROM OTHER SOURCES Organizations reporting 80 water from other sources used on land served	643	79	99	135	213	11
by the organizationorganizations. cree served	1,300,767 1,198,763 3,450,251 2.9	65,797 60,905 355,311 5.8	201,567	445,254 432,387 700,405 1.6	478,204 432,945	108,98 94,60 191,85
sources used on land served by the organizations. ecres served. serves served. water delivered to farms. serve-feet per serve. serve-feet per serve.	23 46,896 38,100 96,671 2.5	3 10,567 9,705 24,339	7,616	9,914 23,959	11,226 6,967 25,949	6,81 3,89 7,23

Water was transferred to the basin and released to natural atream channels in excess of the quantity of surface water withdrawn by irrigation organizations. The net effect was to increase the available surface water supply in the basin or State.

State Table 2.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Continued

	item (For definitions and explanations, see text)	Wyoming, total	Snake River above American Falls, Idaho	Bear River and Green River	Flatte River (VI-D and VI-E)	Yellowstone River direct, above Livingston, Clarks Fork direct, and Big Horn River (VI-F-1d, 4a, and VI-C)	Yellowstome River excluding Big Horn River and Clarks Fork
			(1-H)	(III-E and IV-E)	(VI-D and VI-E)	and VI-C)	(V1-F)
1 2 3 4 5 6 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Organizations reporting 80 sates from other nources used on same land: 0.1 to 0.9 scre-feet per acreorganizations. 1.0 to 1.9 acre-feet per acreorganizations. 2.0 to 2.9 acre-feet per acreorganizations. 3.0 to 3.9 acre-feet per acreorganizations. 4.0 to 4.9 acre-feet per acreorganizations. 5.0 to 5.9 acre-feet per acreorganizations. 5.0 to 5.9 acre-feet per acreorganizations. 5.0 to 5.9 acre-feet per acreorganizations. 6.0 to 6.9 acre-feet per acreorganizations. 6.0 to 6.9 acre-feet per acreorganizations. 7.0 to 7.9 acre-feet per acreorganizations. 8.0 to 9.9 acre-feet per acreorganizations.	44, 42, 994, 176, 479, 980, 195, 195, 195, 195, 195, 195, 195, 195	7,491 1,794 1,779 1,279 1,00 2,685 7,409 1,00 8,695 3,642 1,44 8,714	3,984 355 84,620 29 47,527 8 6,4778 13,984 1350 5 4,743 8,723	111 28,139 74 314,704 30 66,485 15 20,882 1,543 1 550 0 	18 6,65½ 13 20,643 100,943 166 121,962 42 75,623 64,812 64,812 14,029 21,023 6 3,250	4,117, 49 49,535 42, 26,754, 11 12,970 5, 1,225
	SIZE OF ORGANIZATION						
21 22 23 24 25 26 27 28 29 30 31 32 33 34 35	10 to 29. organizations. 30 to 99. organizations. 100 to 299. organizations. 100 to 299. organizations. 300 to 999. organizations. water users. 1,000 or more. organizations. Size of organization (acre-fact of water	20 307 736 202 1,106 104 1,639 3,71 1,977 1,969 2,378 1	1 29 70 28 162 18 285 7 348 	51 123 29 162 21 370 3 195	3 68 166 40 203 19 275 7 7 448 2 286 2 1,131 1,512	3 97 225 75 405 23 349 12 700 11,674 3 1,277	12 62 152 29 168 23 360 5 286
36 37 38 39 40 41 42 43 44 45 46 47 48 49 50	delluvered directly to farms): Organizations 1 to 299 acre-feet Organizations 1 to 299 acre-feet Organizations 200 to 999 acre-feet Organizations 1,000 to 2,999 acre-feet Organizations 3,000 to 9,999 acre-feet Organizations acre-feet 3,000 to 9,999 acre-feet Organizations 20,000 to 29,999 acre-feet Organizations acre-feet 30,000 to 99,999 acre-feet Organizations acre-feet acre-fe	20 90 15,858 107,825 2002 39,147 128 661,913 371,290 61,309,022 4,532,067	1 3 424 225 16,115 24,275 266 137,475 157,761 33,000	7 1,421 25 14,362 29 52,039 22,039 138,667 10 131,148 4 170,838	3 117 3,182 37 21,528 90,422 23 126,771 59,742 5272,740 11	3 40 6,445 46 27,425 9 114,510 177,290 113 192,287 16 831,844 33,382,088	12 23 4,386 45 28,195 30,257 76,224 30,352
51 52 53 54 55 56 57 58 59 60 61 62 63 64 65	Size of organization (acre-feet of water conveyed): None	11 68 12,127 168 100,805 210 380,470 145 796,849 53 882,682 23 1,353,904 8 1,894,462	3 470 17 10,985 22 36,903 26 140,740 13 232,260 	55 950 24 13,684 29 54,136 12 172,726 10 153,312 4 200,239	3 2,479 35 20,365 51 90,771 28 152,628 7 108,912 3 188,604 3 856,819	1 31 4,955 28,935 28,939 130,808 9 227,348 11324,160 874,901 1,037,643	6 37 3,273 3,273 3,273 27,158 27,158 199 96,867 99,967 90,252

State Table 3.-LAND IRRIGATED BY SOURCE OF WATER, BY DRAINAGE BASINS: CENSUS OF 1959

_							
	Item (For definitions and explanations, see text)	Wyoming, total	Snake River sbove American Falls, Idaho	Bear River and Green River	Platte River	Yellowstone River direct, showe Livingstom, Clarks Fork direct, and Big Horn River	Yellowstone River excluding Big Horn River and Clarks Fork
			(I-H)	(III-E and IV-E)	(VI-D and VI-E)	(VI-F-ld, 4a, and VI-G)	(VI-F)
1	Total acres irrigatedfarms reporting	6,412	475	767	1,813	2,623	602
2	scres	1,469,911	64,873	321,734	525,082	437,931	100,812
3	Acres irrigated by sprinklersfarms reporting	293	54	35	101	26	43
4	scres	17,028	3,444	2,398	5,154	1,050	2,077
5	Sprinklers onlyfarms reporting	111	24	8	38	3	14
6	scres	7,601	2,089	467	2,190	187	427
	LAND IRRIGATED, BY SOURCE OF WATER TO INDIVIDUAL PARMS, 1959						
7	Ground water sources on farmfarms reporting	338	16	31	218	34	13
8	scres	33,499	687	2,507	24,366	3,602	290
9	Ground water sources on farm only farms reporting	158	6	16	101	7	8
10	acres	18,817	352	1,242	15,489	181	125
11	Surface sources on farmfarms reporting	2,213	197	431	698	508	275
12	acres	723,133	32,549	211,627	316,029	96,960	49,478
13	Surface sources on farm onlyfarms reporting	1,887	177	372	608	418	213
14	scres	638,873	30,666	189,940	288,786	74,862	39,165
15	Irrigation organization sourcesfarms reporting	4,279	287	365	1,066	2,177	377
16	ccres	713,279	31,637	107,600	184,687	337,369	51,044
17	Irrigstion organization sources						
	onlyfarms reporting	3,926	266	311	925	2,099	318
18	scres	629,415	29,648	90,696	146,109	318,231	43,789
19	Both farm ground water sources and surface sources	77	5	11	33	19	3
20	scres	23,298	420	4,425	10,917	5,384	497
21	Both irrigstion organization and farm ground water or farm surface sources,farms reporting	364	21	57	146	80	60
22	water or tarm surface sources,tarms reporting	159,508	3,787	35,431	63,781	39,273	17,236
	acres	159,500	2,707	32,431	05,761	39,273	17,236

				Wyoming, total			
Item (For definitions and explanations, see text)		Mut	usl		U. S. Bureau o	of Reclamation	Commercial.
(FOI DETILIZATION THE ENGLANCES OF THE TOTAL PARTY	All types	Unincorporated	Incorporated	District	Projects and storage systems operated by bureau	Operated by water users	Indian, State, city, and other
Irrigation organizationsorganizations 1959	6 8 6 693	521 538	113 120	37 27	7 5	12 NA	8
Service area, 1959: Area served, as reported				<i>(-</i>)			
by organizations	1,166,907	377,983	314,633 283,851	(D)	42,730 ; 40,540	201,390 190,769	(D)
by organizationsacres Water users served, 1959, totalwater users	1,057,540 10,347	334,916 2,520	2,729	(D)	204	1,789	
Farm irrigation water userswster users Residential water userswater users Other water userswater users	8,962 1,373	2,358 159 3	2,503 222 4	(D) (D) 4	204	1,763 25	(D)
TYPE OF SERVICE, 1959 All water directly from surface and ground							
water sources organizations. Total water conveyed acre-feet. Water delivered. acre-feet. To farm and residential users	4,836,975 3,475,311	1,058,834 877,831	1,167,059 881,246	(D) (D)	154,296 86,714	1,429,872 791,712	8 (D) (D)
onlyorganizations acre-feet	587 2,476,965	474 849,549	84 798,933	20 (D)	86,714	134,279	(D)
To farm and residential users and other irrigation organizations organizations Water to farm and residential	17		9	8		4	
users	488,759		47,787	(D)		313,776	
organizations	455,328		29,263	(D)		322,943	
onlyorganizations acre-feet	54,259	28,282	5,263	(D)	:::	1 20,714	:::
Part of water from other organizationsorganizations Total water conveyedacre-feet From surface and ground water	27 309,907	14 58,229	10 113,517	(D)	1 55,793	73,088	:::
sources	63,279 246,628 230,335	20,014 38,215 51,153	55,329 58,188 91,718	(D) (D)	1-23,344 79,137 39,696	4,000 69,088 34,328	
onlyorganizations acre-feet	25 219,938	14 51,153	8 81,321	(D)	39,696	1 34,328	
To farm and residential users and other irrigation organizations organizations Water to farm and residential	2		2			•••	
Water to other irrigation	4,277		4,277			•••	
organizations	6,120		6,120				
acre-feet	35						
All of water from other organizationsorganizations Total water conveyed	269,079 105,773	44,295 40,081	23,220 20,124	(D)	::::	176,348 25,160	:::
onlyorganizations	35 105,773	40,081	20,124	(D)		25,160	
To farm and residential users and other irrigation organizations organizations Water to farm and residential					,		
users							
organizationsacre-feet To other irrigation organizations						•••	
onlyorganizations		:::	:::			•••	:::
No water conveyedorganizations	11	2	4	•••		•••	
WATER FROM OTHER SOURCES Organizations reporting no water from other sources used on the land served by the organization	643	506	94	33	2	10	8
acres served acres irrigated water delivered to farms (acre-feet)	1,300,767 1,198,763 3,450,251	369,576 329,140 928,609	305,639 279,859 895,683	(D) (D) (D)	42,730 40,540 126,410 3.1	201,390 190,769 507,528	(D) (D) (D) (D)
Organizations reporting water from other sources used on land served by the organization	2.9	2.8	3.2	(D) 2	3.1	2.7	
acres acrved acres irrigated water delivered to farms (acre-feet) acre-feet per acre	46,896 38,100 96,671 2.5	10,824 8,193 16,236 2.0	31,674 26,172 75,534 2.9	(D) (D) (D)	:::		
NEW CAPITAL INVESTMENT, 1950-1959 Expenditures for additional new works and							
equipment for irrigation and drainage, quipment for irrigation and drainage, January 1, 1950-becaber 31, 1959organizations. By water users organizationsdoilars.	379 24,427,288 4,748,845	269 544,391	1,157,374	25 (D) (D)	18,748,344 	10 5,678,944 2,174,208	6 (D)

		.,		Wyoming, total			
Item		Mut	tual		U. S. Bureau	of Reclamation	
(For definitions and explanations, see text)	All types	Unincorporated	Incorporated	District	Projects and storage systems operated by bureau	Operated by water users	Commercial, Indian, State, city, and other
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959							
Total entering conveyance systemsorganizations acre-feet	675 4,900,254	519 1,078,848	109 1,222,388	37 (D)	130,952	12 1,433,872	(D)
From another drainage basinorganizations acre-feet	3 10,320		3				•••
From drsinage basin	10,320		10,320		:::	:::	***
From sources within basinorganizations	638 4,889,934	490 1,078,848	106	32 (D)	130,952	1,433,872	(D)
Surface waterorganizations acre-feet	632 4,883,524	485 1,074,598	1,209,908	32 (D)	130,952	1,433,872	(D)
Ground waterorganizations acre-feet	7 6,410	4,250	2,160				
From other organisations in the basin organisations receiving	62 515 ,7 07	43 82,510	11 81,408	7 (D)	1 79,137	4 245,436	***
Total leaving conveyance systemsorganizations acre-feet	675 4,900,254	519 1,133,076	109 1,263,150	37 (D)	2 210,089	12 1,335,651	8 (D)
Conveyance loss in basinorganizations acre-feet	653 1,015,555	503 182,862	106 275,410	34 (D)	2 83,679	9 290,851	8 (D)
Conveyed to another drainage basinorganizations scre-feet To drainage basin number	15 579,444	9,379	32,858	3 (D)		3 537,207	
Delivered for use in the basinorganizations	659	515	100	34			
acre-feet To farm irrigation water usersorganizations	3,305,255	940,835	954,882 100	(D)	126,410	10 507,593	(D) 8
acre-feet To domestic water usersorganizations	3,278,182	938,326	941,728	(D)	126,410	507,528	(D)
For other useorganizations	17,530	2,457	10,714	(D)		15 1	
Bere-feet Delivered to other uniquion	9,543	52	2,440	(D)		50	(D)
organisations	25 515,707	28,282	14 40,646	9 (D)		5 343,657	
SIZE OF ORGANIZATION, 1959							
Size of organization (number of farm irrigation water users): organizations 1 to 3 water users organizations 4 to 9 water users organizations 4 to 9 water users organizations 30 to 99 water users organizations 100 to 29 water users organizations 100 to 299 water users organizations 300 to 999 water users organizations 300 to 999 water users organizations 300 to 999 water users organizations 300 to 999 water users organizations 300 to 990 water users organizati	20 307 202 104 34 13 5	4 299 167 49 2	9 7 31 43 20 3	(D) (D) (D) (D) (D) (D)	5 1 1	1 1 2 3 4	(D) (D) (D) (D) (D) (D) (D)
Size of organization (acre-feet of water delivered directly to farms): Nome	20 90 178 202 128 38 26 4	4 86 169 172 79 11	9 3 8 28 40 19 5	(D) (D) (D) (D) (D) (D) (D) (D)	5	2 1 1 1 5 2	(D) (D) (D) (D) (D) (D) (D)
Size of organization (acre-feet of water conveyed): None	11 68 168 210 145 53 23 8	2: 65 161 185 93 15	4 2 7 23 45 25 25	(D) (D) (D) (D) (D) (D) (D)	5 1	 2 2 3 5	(D) (D) (D) (D) (D) (D) (D)

D Data not shown to svoid disclosure of information for individual organizations.

MA Not available.

"Water was transferred to the basin and released to natural stream channels in excess of the quantity of surface water withdrawn by irrigation organizations. The net effect was to increase the available surface water supply in the basin or State.

IRRIGATION OF AGRICULTURAL LANDS

			Snake River abo	ove American Fall	s, Idaho (I-H)		
Item (For definitions and explanations, see text)		Mut	ual		U. S. Bureau	of Reclamation	Commercial.
(10) ((2111)/10) ((10) (10) (10)	All types	Unincorporated	Incorporated	District	Projects and storage systems operated by bureau	Operated by water users	Indian, State, city, and other
Irrigation organizationsorganizations 1959	83 107	69 90	12 15	2		NA	
Service area, 1959: Area served, as reported by organizationsacres	59,752	34,889	17,640	(D)			
Area irrigated, as reported by organizationsacres	54,498	31,542	15,895	(D)			
Water users served, 1959, totalwater users	821	462	287	(D)			l
Farm irrigation water users. water users. Residential water users. water users. Other water users. water users.	728 93	436 26 	220 67	(D)		:::	
TYPE OF SERVICE, 1959							
All water directly from surface and ground water sources	74 455,699 353,678	61 252,702 210,106	12 158,197 109,972	(D) (D)		:::	
onlyorganizations acre-feet	71 288,258	60 184,186	70,472	1 (D)	:::		::
To farm and residential users and other irrigation organizationsorganizations	2		2				
Water to farm and residential usersacre-feet water to other irrigation	28,080		28,080				
organizationsacre-feet To other irrigation organizations	11,420		11,420				
onlyorganizations	25,920	25,920					::
Part of water from other	,	,			i		
organizationsorganizations Total water conveyedacre-feet From surface and ground water	45,000	45,000	:::	•••		:::	
sources	19,080 25,920 40,500	19,080 25,920 40,500	:::		:::	:::	
onlyorganizations	7 40,500	7 40,500			:::	:::	::
To farm and residential users and other irrigation organizations organizations Water to farm and residential							
water to other irrigation						•••	
organizationsacre-feet To other irrigation organizations		•••	•••	•••		•••	••
onlyorganizations acre-feet	:::	:::	:::		:::	:::	::
All of water from other organizations organizations Total water conveyed	2 11,420 8,855	1 1,160 1,160		(D) (D)	:::		 ::
To farm and residential users only	2 8,855	1,160		(D)			
To farm and residential users and other irrigation organizationsorganizations	0,000	1,100		(1)			
Water to farm and residential usersacre-feet							
Water to other irrigation organizationsacre-feet							
To other irrigation organizations onlyorganizations							
No water conveyedorganizations		:::	:::		:::	***	:::
WATER FROM OTHER SOURCES							
Organizations reporting no water from other sources used on the land served by the organizationorganizations	79	67	10	. 2			•••
acres served scres irrigated water delivered to farms (acre-feet) acre-feet per acre	65,797 60,905 355,311 5.8	35,584 32,309 225,791 7.0	22,990 21,535 88,225 4.0	(D) (D) (D)	:::		
Organizations reporting water from other sources used on land served by the organization	3.0	7.0	2.1	(0)			
acres served acres irrigated water delivered to farms (acre-feet) acre-feet per acre	10,567 9,705 24,339 2.5	672 600 2,436 4.0	9,895 9,105 21,903 2,4		:::		
NEW CAPITAL INVESTMENT, 1950-1959 Expenditures for additional new works and equipment for irrigation and drainage,	2.5	4.0	2.4	***		•••	•••
January 1, 1950-becember 31, 1959 organizations By U. S. B. R dollars By water users organizations dollars See footnotes at end of table.	45 193,152	38 111,554	40,567	(D)	:::		

			Snake River ab	ove American Fall	s, Idaho (I-H)		
Item (For definitions and explanations, see text)		Mut	ual		U. S. Bureau c	of Reclamation	Commercial,
	All types	Projects and storage systems operated by bureau	Operated by water users	Indian, State, city, and other			
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959							
Total entering conveyance systemsorganizations acre-feet					:::		:
From another drainage basinorganizations acre-feet			• • • •				
From drainage basin					:::	:::	:::
From sources within basinorganizations acre-feet				(p)			
Surface waterorganizations	76	63	12	1	:::		
Ground waterorganizations	5	. 5			:::		
From other organisations in the basin organisations receiving	9	8					
acre-feet	37,340	27,080			:::		:::
Total leaving conveyance systemsorganizations acre-feet					:::	:	:::
Conveyance loss in basinorganizations acre-feet				(D)			
Conveyed to another drainage basinorganizations	7 24 049	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	22 190				
To drainage basin number					:::	•••	
Delivered for use in the basinorganizations		66	8				
To farm irrigation water usersorganizations	76	66	8	2		***	:::
To domestic water usersorganizations	8	3	5		:::		:::
For other useorganizations acre-feet	• • • •				:	•••	
Delivered to other irrigation				.,.		***	
organizationsorganizations delivering acre-feet		1 25,920			:::		
SIZE OF ORGANIZATION, 1959	,	,	,			• • • • • • • • • • • • • • • • • • • •	
Size of organization (number of farm irrigation water users): Noneorganizations	1	3 1		(7)			
1 to 3 water usersorganizations 4 to 9 water usersorganizations				(D)		•••	:::
10 to 29 water usersorganizations 30 to 99 water usersorganizations		12	5	(D)			
100 to 299 water usersorganizations 300 to 999 water usersorganizations					:::	:::	:
1,000 or more water usersorganizations					:::		:::
Size of organization (acre-feet of water delivered directly to farms): None							
1 to 299 acre-feet. organizations. 300 to 999 acre-feet. organizations.	3	3		(D)	:::		:::
1,000 to 2,999 acre-feetorganizations	18	17	1	(D)	:::		:::
3,000 to 9,999 acre-feetorganizations 10,000 to 29,999 acre-feetorganizations	26 9				:::		
30,000 to 99,999 acre-feetorganizations 100,000 or more acre-feetorganizations				(D)	:::	***	
Size of organization (acre-feet of water conveyed):							
Noneorganizations 1 to 299 acre-feetorganizations				(D) (D)			
300 to 999 acre-feetorganizations 1,000 to 2,999 acrs-feetorganizations	17 22	17 21		(D) (D)			
3,000 to 9,999 scre-feetorganizations 10,000 to 29,999 scre-feetorganizations	26 13	20	6 4	(D) (D)	:::		
30,000 to 99,999 scre-feetorganizations 100,000 or more scre-feetorganizations	2		1	(D)	:::		:::
200,000 or more acre-reetorganizations	• • • •	•••				•••	

D Data not shown to avoid disclosure of information for individual organizations. NA Not available .

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

			Bear River an	d Green River (I	II-E and IV-E)		
Item		Mut	ual		U. S. Bureau o	of Reclamation	Commercial,
(For definitions and explanations, see text)	All types	Unincorporated	Incorporated	District	Projects and storage systems operated by bureau	Operated by water users	Indian, State, city, and other
Irrigation organizationsorganizations 1959	104	80 41	18 18	6		1 NA	
Service area, 1959: Area served, as reported by organizations	202,551	74,010	67,375	61,166		(D)	
Area irrigated, as reported by organizationsacres	177,286	67,092	59,431	50,763		(D)	
ater users served, 1959, totalwater users	854	360	298	196	'	(D)	
Farm irrigation water users: water users Residential water users water users. Other water users water users.	833 21	339 21 	298	196	:::	(D)	::
TYPE OF SERVICE, 1959							
All water directly from surface and ground water sources. organizations. Total water conveyed	103 589,277 496,172	80 231,306 198,503	17 158,433 130,204	199,538 167,465	::::	(D) (D)	::
onlyorganizations acre-feet	102 492,041	80 198,503	16 126,073	167,465	:::	(D)	::
To farm and residential users and other irrigation organizationsorganizations Water to farm and residential	1		1				
usersacre-feet	3,331		3,331				
Water to other irrigation organizationsacre-feet To other irrigation organizations	800		800				
onlyorganizations	***	:::		:::	:::		::
Part of water from other organizations organizations Total water conveyedacre-feet	4,760	:::	. 1		:::		::
From surface and ground water sourcesacre-feet	3,960		3,960		1		
From other irrigation organizationsacre-feet Water deliveredacre-feet To farm and residential users	800 4,284	:::	800 4,284		:::	:::	::
onlyorganizations acre-feet	4,284		4,284	:::	:::		::
To farm and residential users and other irrigation organizationsorganizations Water to farm and residential							
usersacre-feet Water to other irrigation	• • • •					•••	
organizationsacre-feet To other irrigation organizations			•••				
onlyorganizations acre-feet	:::		:::	:::	:::	:::	::
All of water from other organizationsorganizations							
Total water conveyedacre-feet Water deliveredacre-feet			:::			:::	
To farm and residential users onlyorganizations		l					
acre-feet To farm and residential users and other	•••						
irrigation organizationsorganizations	***						
Water to farm and residential usersacre-feet							
Water to other irrigation organizationsacre-feet							
To other irrigation organizations onlyorganizations	l				1		
scre-feet No water conveyedorganizations							
WATER FROM OTHER SOURCES	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •				• • • • • • • • • • • • • • • • • • • •	•••
Organizations reporting no water from other			1				i
sources used on the land served by the organization	99 201,567 176,965	77 70,231 63,313	17 72,820 64,876	5 58,516 48,776	:::	(D)	
water delivered to farms (scre-feet) acre-feet per acre	493,287 2.8	190,453	137,409	165,425		(D) (D) (D)	
Organizations reporting water from other sources used on land served by the			1	1	1	1	1
organizationorganizations acres served	8,279	3,779	1,850	2,650	:::	:::	
acres irrigated water delivered to farms (acre-feet) acre-feet per acre	7,616 15,188 2.0	3,779 7,840 2.0	1,850 5,308 2.9	1,987 2,040 1.0			
NEW CAPITAL INVESTMENT, 1950-1959							
Expenditures for additional new works and equipment for irrigation and drainage, January 1, 1950-December 31, 1959organizations by U.S. B. R	51 387,444	35 101,356	12 255,250	30,838		:::	:::

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	·		Bear River ar	nd Green River (1	II-E and IV-E)		
Item		Mut	ual		U. S. Bureau o	of Reclamation	Commercial.
(For definitions and explanations, see text)	All types	Unincorporated	Incorporated	District	Projects and storage systems operated by bureau	Operated by water users	Indian, State, city, and other
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959							
Total entering conveyance systemsorganizations acre-feet	104 593,237	231,306	18 162,393	199,538	:::	(D)	:::
From another drainage basinorganizations	3 10,320		10,320				
From drainage basin,	***		• • • •				
From sources within basinorganizations acre-feet	102 582,917	80 231,306	16 152,073	6 199 , 538	:::	(D)	
Surface waterorganizations acre-fcet	102 582,917	80 231,306	16 152,073	6 199,538	:::	(D)	
Ground waterorganizations acre-feet			:::		:::		
From other organizations in the basin,,organizations receiving acre-feet	1 800	:::	1 800				
Total leaving conveyance systemsorganizations acre-feet	104 593,237	80 231,306	18 162,393	6 199,538	:::	(D)	:::
Conveyance loss in basinorganizations	100 83,183	77 32,803	17 18,307	32,073	:::'	(D)	
Cooveyed to another drainage basinorganizations acre-feet	10,398		2 10,398				
To drainage basin number	10,550	:::	10,570				
Delivered for use in the basinorganizations acre-feet	104 499,656	80 198,503	18 133,6 8 8	167,465		1 (D)	:::
To farm irrigation water usersorganizations acre-feet	104 499,446	80 198,293	18 133,688	167,465	:::	1 (D)	:::
To domestic water usersorganizations acre-feet	2 210	2 210					:::
For other useorganizations		:::	:::	:::	::::		:::
Delivered to other irrigation organizations delivering. acre-feet	1 800	:::	1 800				
S1ZE OF ORGANIZATION, 1959							
Size of organization (number of farm irrigation water users):							
Noneorganizations 1 to 3 water usersorganizatione	51	49	2				:::
4 to 9 water usersorganizations 10 to 29 water usersorganizatioos	29 21	24 7	11	1 3	:::	:::	:::
30 to 99 water usersorganizations 100 to 299 water usersorganizations		:::	1	2	:::	(D)	:::
300 to 999 water usersorganizations 1,000 or more water usersorganizations		:::			:::	:::	:::
Size of organization (acre-feet of water delivered directly to farms):							
Noneorganizations 1 to 299 acre-feetorganizations				:::	:::	:::	:::
300 to 999 acre-feetorganizations 1,000 to 2,999 acre-feetorganizations	25 29	25 25		···i	:::	:::	:::
3,000 to 9,999 acre-feetorganizations 10,000 to 29,999 acre-feetorganizations	29 10	19 4	10			:::	:::
30,000 to 99,999 acre-feetorganizations 100,000 or more acre-feetorganizations	4	:::	1	3		(D)	:::
Size of organization (acre-feet of water conveyed):							
Noneorganizations 1 to 299 acre-feetorganizations		5			:::		:::
300 to 999 acre-feetorganizations 1,000 to 2,999 acra-feetorganizations	24 29	24 26		"i	:::	:::	:::
3,000 to 9,999 acre-feetorganizations 10,000 to 29,999 acre-feetorganizations	32 10	21 4	11 4				:::
30,000 to 99,999 acre-feetorganizations 100,000 or more acre-feetorganizations	4		1	3		(D)	:::
and an anti-section of the section o				1	1	· · ·	1

D Data not shown to avoid disclosure of information for individual organizations. NA Not available.

			Platte	River (VI-D and	VI-E)		
Item		Mut	ual		U. S. Bureau	of Reclamation	Commercial.
(For definitions and explanations, see text)	All types	Unincorporated	Incorporated	District	Projects and storage systems operated by bureau	Operated by water users	Indian, State, city, and other
Irrigation organizationsorganizations 1959	142 161	113 132	15 20	9 7	3 2	4 NA	
Service area, 1959: Area served, as reported by organizations	(D)	135,317	45,105	(D)		(D)	(D)
by organizationsacres	(D) (D) (D) (D)	124,217 548 548 	505 382 123	(D) (D) (D) (D) (D)		(D) (D) (D) 	(D) (D)
All water directly from surface and ground water sources	110 1,172,425 624,310	87 202,218 168,600	14 70,233 53,658	(D) (D)		3 (D) (D)	(D) (D)
acre-feet To farm and residential users and other irrigation organizationsorganizations	299,867	168,600	53,658	(D) 3		(D)	(D)
Water to farm and residential usersacre-feet Water to other irrigation	107,273			(D)		(D)	
organizationsacre-feet To other irrigation organizations	217,170			(D)		(D)	
onlyorganizations acre-feet Part of water from other	• • • • • • • • • • • • • • • • • • • •		:::	:::		:::	
organizationsorganizations Total water conveyedacre-feet From surface and ground water	42,020	1,972	40,048		:::		:::
sources. acre-feet. From other irrigation organizations. acre-feet. Water delivered. acre-feet. To farm and residential users only. organizations.	24,634 17,386 35,813	1,200 772 1,772	23,434 16,614 34,041				
acre-feet To farm and residential users and other	35,813	1,772	34,041				
irrigation organizationsorganizations Water to farm and residential usersacre-feet Water to other irrigation							
organizations							
All of water from other organizations. organizations Total water conveyed	27 199,784 50,354	25 41,680 37,641		2 (D) (D)		1 (D)-	-
acre-feet To farm and residential users and other	50,354	37,641		(D)			
irrigation organizations organizations Water to farm and residential users							
Water to other irrigation organizations							
onlyorganizations acre-feet No water conveyedorganizations		***			3		
Organizations reporting no water from other sources used on the land served by the organization	135 445,254 432,387 700,405 1.6	112 134,890 123,790 207,433	14 37,266 37,003 66,688 1.8	7 (D) (D) (D) (D)		3 (D) (D) (D) (D)	(D) (D) (D)
Organizations reporting water from other sources used on land served by the organization. organization. acres served acres irrigated water delivered to farms [acre-feet] acre-feet per acre.	4 10,014 9,914 23,959 2.4	1 427 427 580 1.4	2 7,339 7,739 20,518 2.6	(D) (D) (D) (D)			:::
NEW CAPITAL INVESTMENT, 1950-1959 Expenditures for additional new works and equipment for irrigation and drainage, January 1, 1950-beember 31, 1959 organizations. By U. S. B. R	53 5,652,881 2,886,331	40 66,531	6 71,800	(D)	2 4,247,198 	3 (D) (D)	

	Platte River (V1-D and VI-E)													
Item (For definitions and explanations, see text)		Mut	ual		U. S. Bureau	of Reclamation	Commercial,							
(For definitions and explanations, see teat)	All types	Unincorporated	Incorporated	District	Projects and storage systems operated by bureau	Operated by water users	Indian, State, city, and other							
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959		113	15	9		,								
Total entering conveyance systemsorganizations acre-feet	139 (D)	203,418	93,667	(D)	:::	(D)	(D)							
From another drainage basinorganizations acre-feet				:::			:::							
From drainage basin	112	88	15			3								
From sources within basinorganizations acre-feet Surface waterorganizations	(D)	203,418 88	93,667	(D) 7		(D)	(D) 2							
Surface water	(D)	203,418	91,507	(D)	:::	(D)	(D)							
acre-feet	(D)	26	2,160											
From other organizations in the bastn organizations receiving	(Ď)	42,452	16,614	(D)		(D)								
Total leaving conveyance systemsorganizations acre-feet	139 (D)	113 245,870	15 110,281	(D)	:	(D)	(D)							
Conveyance loss in basinorganizations acre-feet	130 (D)	106 37,857	15 22,582	(D)	:::	(D) ²	(D)							
Conveyed to another drainage basinorganizations acre-feet	(D)			(D)		(D)								
To drainage basin numberD. B. No	138	113	15			3								
Delivered for use in the basinorganizations acre-feet To farm irrigation water usersorganizations	(D) 138	208,013	87,699 15	(D) 8		(D)	(D)							
To domestic water usersorganizations To domestic water usersorganizations	(D) 3	208,013	87,206 1	(D) 2		(D)	(D)							
acre-feet For other useorganizations acre-feet acre-feet	(D)		493 	(D)	:::	:::	1 (D)							
Delivered to other irrigation organizations delivering organizations delivering acre-feet	3 (D)	:::		3 (D)		(D)								
SIZE OF ORGANIZATION, 1959														
Size of organization (number of farm irrigation water users): Noneorganizations	3			(D)	3	(D)	(D)							
1 to 3 water usersorganizations 4 to 9 water usersorganizations	68 40	64 33	3 6	(D)		(D) (D)	(D) (D) (D) (D) (D) (D) (D)							
1D to 29 water usersorganizations 30 to 99 water usersorganizations	19 7 2	16	1 5	(D) (D)	:::	(D) (D) (D)	(D)							
100 to 299 water usersorganizations 300 to 999 water usersorganizations 1,000 or more water usersorganizations	2			(D)		(D) (D)	(D) (D)							
Size of organization (acre-feet of water delivered directly to farms):	3			(D)	3	(D)	(D)							
Noneorganizations 1 to 299 acre-feetorganizations 300 to 999 acre-feetorganizations	17	16 34	1 2	(D)		(D)	(D)							
1,000 to 2,999 acre-feetorganizations 3,000 to 9,999 acre-feetorganizations	52 23	45 16	6 4	(D) (D)		(D)	(D) (D) (D) (D)							
10,000 to 29,999 acre-feetorganizations. 30,000 to 99,999 acre-feetorganizations 100,000 or more scre-feetorganizations	5 1	2	1 1	(D)		(D) (D)	(D)							
Size of organization (acre-feet of water conveyed):														
Noneorganizations 1 to 299 acre-feetorganizations	3 12 35	11 34	1 1	(D) (D)	3	(D) (D)	(D)							
300 to 999 acre-feetorganizations 1,000 to 2,999 acre-feetorganizations 3,000 to 9,999 acre-feetorganizations	51 28	43	7 4	(D)		(D) (D) (D)	(D)							
10,000 to 29,999 acre-feet	7 3 3	3	1	(D) (D)		(D) (D) (D)	(D) (D) (D) (D) (D) (D) (D)							

D Data not shown to avoid disclosure of information for individual organizations. NA Not evailable.

See footnotes at end of table.

	Yellowstone	River direct abo	ove Livingston, Cl	larks Fork direct	, and Big Horn Riv	er (VI-F-ld, 4a,	and VI-C)
Item (For definitions and explanations, see text)		Mut	ual		U. S. Bureau	of Reclamation	Commercial.
(See VEAU)	All types	Unincorporated	Incorporated	District	Projects and storage systems operated by bureau	Operated by water users	Indian, State, city, and other
Irrigation organizationsorganizations 1959	224 232	161 175	34 38	20 16	3 2		6
Service area, 1959: Area served, as reported by organizationsacres	488,923	80,096	122,369	204,811	42,730	111,953	36.917
Area irrigated, as reported by organizations acres.	439,585	64,838	112,491	191,949	40,540	104,560	29,767
Water users served, 1959, totalwater users	5,498	686	1,135	3,185	204	1,117	25,767
Farm irrigation water users	4,596 893 9	574 110 2	1,099 32 4	2,431 751 3	204	1,091 25 1	288
TYPE OF SERVICE, 1959 All water directly from surface and ground					!		
water sourcesorganizations Total water conveyedacre-feet Water deliveredacre-feet To farm and residential users	207 2,400,740 1,823,345	153 255,531 205,597	31 678,439 504,631	16 1,117,924 856,383	1 154,296 86,714	622,670 459,037	194,550 170,020
onlyorganizations acre-feet	195 1,236,458	153 205,597	26 481,052	293,075	86,714	53,595	170,020
To farm and residential users and other irrigation organizationsorganizations Water to farm and residential	10		5	5		2	
water to other irrigation	345,803	• • • •	12,104	333,699	***	236,503	
organizationsacre-feet To other irrigation organizations onlyorganizations	220,370		11,475	208,895		148,225	
acre-feet	20,714	:::		20,714	:::	20,714	:::
Part of water from other organizations organizations Total water conveyed acre-feet From surface and ground water	10 165,019	5 9,166	2 17,692	2 82,368	1 55,793	73,088	:::
sources	1-18,190 183,209 107,989	256 8,910 7,312	1-6,382 24,074 13,213	11,280 71,088 47,768	1-23,344 79,137 39,696	4,000 69,088 34,328	
To farm and residential users onlyorganizations	10	5	2	2	1	1	
acre-feet To farm and residential users and other irrigation organizationsorganizations	107,989	7,312	13,213	47,768	39,696	34,328	
Water to farm and residential usersacre-feet							
Water to other irrigation organizationsacre-feet To other irrigation organizations							
onlycrganizations acre-feet		:::					
All of water from other organizationsorganizations Total water conveyedacre-feet. Water deliveredacre-feet. To farm and residential users	6 57,875 46,564	3 1,455 1,280	23,220 20,124	2 33,200 25,160		33,200 25,160	:::
onlyorganizations	6 46,564	3 1,280	1 20,124	2 25,160		2 25 ,1 60	:::
To farm and residential users and other irrigation organizationsorganizations Water to farm and residential				•••			
water to other irrigation	•••			•••		•••	
organizationsacre-feet To other irrigation organizations	•••					•••	
onlyorganizations acre-feet			:::			•••	:::
No water conveyedorganizations WATER FROM OTHER SOURCES	1				1	•••	
Organizations reporting no water from other sources used on the land served by the							
organizationorganizations acres served acres irrigated water delivered to farms (acre-feet)	213 478,204 432,945 1,705,940	156 75,200 62,501 209,469	31 116,289 108,111 503,516	18 205,068 192,026 696,525	42,730 40,540 126,410	112,053 104,560 349,571	38,917 29,767 170,020
Organizations reporting water from other sources used on land served by the	3.9	3.4	4.6	3.6	3.1	3.3	5.7
organizationorganizations acres served acres irrigated water delivered to farms (acre-feet)	8 11,226 6,967 25,949	5,146 2,587 4,589	6,080 4,380 21,360		:::	•••	:::
acre-feet per acre	3.7	1.8	4.9			•••	
NEW CAPITAL INVESTMENT, 1990-1959 Expenditures for additional new works ame equipment for irrigation and dreinage, and additional dreinage, and and additional dreinage, organizations, by U. S. B. R. dollars. By water users organizations. dollars.	127 14,506,938 1,835,178	81 160,048	23 293,584	14 3,118,926 811,788	3 11,388,012 	7 3,118,926 625,903	6 569,758

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State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

	Yellowston	e River direct ab	ove Livingston, C	larks Fork direct	, and Big Horn Riv	ver (VI-F-ld, 4a,	and VI-C)
ltem (For definitions and explanations, see text)		Mut	ual		U. S. Bureau	of Reclamation	Commercial.
(FOR URITHEROUSE and explanations, see text)	All types	Unincorporated	Incorporated	District	Trojects and storage systems operated by bureau	Operated by water users	Indian, State, city, and other
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959							
Total entering conveyance systemsorganizations acre-feet	223 2,382,550	161 255,787	34 672,057	20 1,129,204	130,952	7 618,670	194,550
From another drainage basinorganizations							
From drainage basin			:::	:::			
From sources within basinorganizations	217 2,382,550	158 255,787	33 672,057	1,129,204	130,952	5 626,670	194,550
Surface waterorganizations acre-feet	217 2,382,550	158 255,787	672,057	18 1,129,204	130,952	5 626,670	6 194,550
Ground waterorganizations acre-feet							:::
From other organizations in the basin organizations receiving	16 241,084	8 10,365	3 47,294	104,288	79,137	3 102,288	:::
Total leaving conveyance systemsorganizations	223 2,382,550	161 266,152	34 707,876	20 1,003,883	210,089	7 552,019	6 194,550
Conveyance loss in basinorganizations	218 640,630	158 49,623	33 178,943	19 303,855	83,679	6 202,167	6 24,530
Conveyed to another drainage basinorganizations acre-feet	2,506	2,290		1 216		1 216	
To drainage basin number	2,500	2,290			:::		:::
Delivered for use in the basinorganizations acre-feet	1,739,414	161 214,239	34 528,933	18 699,812	2 126,410	6 349,636	170,020
To farm irrigation water usersorganizations acre-feet	221 1,730,923	161 213,308	34 524,876	18 696,309	126,410	6 349,571	170,020
To domestic water usersorganizations	15 5,891	7 881	1,617	3,393	· · · ·	1 15	:::
For other useorganizations acre-feet	6 2,600	1 50	2,440	110	:::	1 50	:::
Velivered to other unigation organizations delivering organizations acre-feet	11 241,084	:::	5 11,475	6 229,609	:::	3 168,939	:::
SIZE OF ORGANIZATION, 1959							
Size of organization (number of farm irrigation water users). None	3 97 75 23 12 11 3	97 60 4	 13 13 5 3 	2 1 5 2 7 3	1 1 1	1 1 1 2 2	 1 1 4
Size of organization (acre-feet of water delivered directly to farms): None organizations. 1 to 299 acre-feet organizations. 300 to 999 acre-feet organizations. 1,000 to 2,999 acre-feet organizations. 3,000 to 9,999 acre-feet organizations. 10,000 to 29,999 acre-feet organizations. 30,000 to 99,999 acre-feet organizations. 100,000 or acre acre-feet. organizations.	3 40 46 69 34 13 16	39 43 60 19	 3 9 10 8 8	2 1 3 4 8 2		1 1 1 2 2	 2 1 3
Size of organization (acre-feet of mater conveyed): organizations. star conveyed): organizations. 1 to 299 acre-feet. organizations. 300 to 999 acre-feet. organizations. 1,000 to 9,999 acre-feet. organizations. 10,000 to 29,999 acre-feet. organizations. 30,000 to 99,999 acre-feet. organizations. 30,000 to 99,999 acre-feet. organizations. 30,000 to or nore acre-feet. organizations.	1 31 47 69 39 18 14	30 47 62 22	 7 12 11 2 2	 1 3 6 8 8	1 1	 1 2 2 2	 2 1 1

NA Not available. ¹Water was transferred to the basin and released to natural stream channels in excess of the quantity of surface water withdrawn by irrigation organizations. The net effect was to increase the available surface water supply in the basin or State.

IRRIGATION OF AGRICULTURAL LANDS

	Yellowstone River excluding Big Horn River and Clarks Fork (VI-F)											
Item (For definitions and explanations, see text)		Mut	ua1		U. S. Bureau o	of Reclamation	00					
(FOR DELINITIONS and Explanations, see seas)	All types	Unincorporated	Incorporated	District	Projects and storage systems operated by bureau	Operated by water users	Commercial, Indian, State, city, and other					
Irrigation organizationsorganizations 1959	131	97	34			***						
ervice area, 1959: Area served, as reported by organizationsacres	129	53,511	28 62,144			NA						
Area irrigated, as reported by organizationsacres	98,359	47,067	51,292									
Water users served, 1959, totalwater users	967	463	504									
Farm irrigation water users	964 2 1	460 2 1	504									
TYPE OF SERVICE, 1959												
All water directly from surface and ground water sources	118 214,994 177,230	94 113,237 94,449	101,757 82,781		:::		::					
onlyacre-feet	111 159,765	93 92,087	18 67,678			***	l ::					
To farm and residential users and other irrigation organizations organizations Water to farm and residential	1		1,									
usersacre-feet Water to other irrigation	4,272		4,272	• • •								
organizationsaore-feet To other irrigation organizations onlyorganizations	5,568		5,568									
acre-feet	7,625	2,362	5,263	•••	:::	***	:::					
Part of water from other organizations Total water conveyedacre-feet. From surface and ground water	7 53,108	1 2,091	6 51,017			***						
sourcesacre-feet	33,795	1-522	34,317									
From other irrigation organizationsacre-feet Water deliveredacre-feet To farm and residential users onlyorganizations	19,313 41,749	2,613 1,569	16,700 40,180	•••		•••						
acre-feet To farm and residential users and other	31,352	1,569	29,783				::					
irrigation organizationsorganizations Water to farm and residential	2		2				• • • •					
Users acre-feet Water to other irrigation organizationsacre-feet	4,277 6,120		4,277 6,120									
To other irrigation organizations onlyorganizations												
acre-feet						• • • • • • • • • • • • • • • • • • • •						
All of water from other organizationsorganizations Total water conveyedacre-feet Water deliveredacre-feet							::					
To farm and residential users onlyorganizations acre-feet												
To farm and residential users and other irrigation organizationsorganizations				***								
Water to farm and residential usersacre-feet												
Water to other irrigation organizations												
onlyacre-feet												
No water conveyedorganizations	6	2	4			:::						
WATER FROM OTHER SOURCES Organizations reporting no water from other sources used on the land served by the												
organizationorganizations acres served acres irrigated water delivered to farms (acre-feet)	116 108,985 94,601 191,852	93 52,711 46,267 92,007	23 56,274 48,334 99,845				•••					
acre-feet per acre Organizations reporting water from other sources used on land served by the	2.0	2.0	2.1	***								
organization	6,810 3,898 7,236	1 800 800 791 1.0	6,010 3,098 6,445 2.1									
NEW CAPITAL INVESTMENT, 1950-1959 Expenditures for additional new works and equipment for irrigation and drainage. January 1, 1950-December 31, 1959	101	74 104,636	27 496,173		:::	:::						

	<u> </u>	Yellowst	one River excludi	ng Big Horn River	and Clarks Fork	(VI-F)	
Item (For definitions and explanations, see text)		Mut	ual		U. S. Bureau	of Reclamation	
(For det initions and explanations, see text)	All types	Unincorporated	Incorporated	District	Projects and storage systems operated by bureau	Operated by water users	Commercial, Indian, State, city, and other
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959							
Total entering conveyance systemsorganizations acre-feet	125 248,789	95 112,715	30 136,074	:::	:::		
From another drainage basinorganizations							
From drainage basin			•••		:::		:::
From sources within basinorganizations	125	95	30				
Surface waterorganizations	248,789 125	112,715 95	136,074 30		:::		
acre-feet Ground waterorganizations acre-feet	248,489	112,415 1 300	136,074	:::			
	300	300					
From other organizations in the basin organizations receiving acre-feet	19,313	2,613	16,700		:::		
Total leaving conveyance systemsorganizations acre-feet	125 248,789	95 112,966	30 135,823				
Conveyance loss in basinorganizations	123 48,841	94 19,308	29 29,533		:::		:::
Conveyed to another drainage basinorganizations	1		1				
acre-feet To drainage basin number	280	:::	280				:::
Delivered for use in the basinorganizations	119	94	25				
acre-feet To farm irrigation water usersorganizations	199,668 119	93,658 94	106,010 25		:::	:::	:::
acre-feet To domestic water usersorganizations	198,808	92,798 1	106,010		:::	:::	:::
acre-feet For other useorganizations acre-feet	858 1 2	858 1 2					
Delivered to other impation organizations delivering organizations delivering acre-feet	7 19,313	2,362	6 16,951		:::	:::	:
SIZE OF ORGANIZATION, 1959					i		
Size of organization (number of farm irrigation water users). organizations None. organizations. 1 to 3 water users. organizations. 4 to 9 water users. organizations. 30 to 59 water users. organizations. 100 to 29 water users. organizations. 300 to 99 water users. organizations. 1,000 or 99 water users. organizations. 1,000 or note water users. organizations.	12 62 29 23 5	3 61 22 10 1	9 1 7 13 4				
Size of organization (acre-feet of water achieves directly to farms): organizations (organizations): 1 to 299 acre-feet. organizations 300 to 999 acre-feet. organizations 3,000 to 9,999 acre-feet. organizations 3,000 to 9,999 acre-feet. organizations 10,000 to 29,999 acre-feet. organizations 30,000 to 99,999 acre-feet. organizations 30,000 to 99,999 acre-feet organizations 100,000 or more acre-feet. organizations	12 23 45 34 15 2	3 21 43 25 5	9 2 2 9 10 2			:::	
Size of organization (acre-fect of water conveyed): organizations organizations	6 17 45 39 19 5	2 16 39 33 7	4, 1, 6, 6, 12, 5,				

NA Not available.

NA Not available was transferred to the basin and released to natural stream channels in excess of the quantity of surface water withdrawn by irrigation organizations. The net effect was to increase the available surface water supply in the basin or State.

State Table 5.-NUMBER OF IRRIGATION ORGANIZATIONS, TYPE OF SERVICE, NEW CAPITAL INVESTMENT, AND WATER CONVEYED, BY SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUS OF 1959

Item		Wyoming,	total		Snake R	iver above Am		Idaho
(For definitions and explanations, see text)			Size of or	ganization, b	y total water		-1.7	
	0-999 acre-feet	1,000- 9,999 acre-feet	10,000- 99,999 acre-feet	100,000 or more acre-feet	0-999 acre-feet	1,000- 9,999 scre-feet	10,000- 99,999 acre-feet	100,00 or mor acre-fe
number of organizationsorganizations	247	355	76	8	20	48	15	
TYPE OF SERVICE		317		_			13	
All water directly from surface and ground sourcesorganizations Total water conveyed	225 107,159	1,058,871	1,926,000	1,744,945	20 11,455	148,644	295,600	
Water deliveredacre-feet To farm and residential users onlyorganizations	89,677 222	843,136 306	1,591,609	950,889	9,892 20	99,217 40	244,569	
To farm and residential users and other	89,164	800,284	1,273,347	314,170	9,892	98,057	180,309	
irrigation organizationsorganizations		20,055	5 154,928	313,776		1	28,080	
Water to farm and residential usersacre-feet Water to other irrigation organizationsacre-feet	:::	15,685	116,700	322,943		1,160	10,260	
To other irrigation organizations onlyorganizations acre-feet	513	7,112	46,634			• • • •	25,920	
Part of water from other organizationsorganizations	1 430	18 72,447	8			6	16,560	
Total water conveyedacre-feet From surface and ground water sourcesacre-feet	1-20	28,863	237,030 34,436 202,594			28,440 12,110	6,970 9,590	
From other irrigation organizationsacre-feet Water deliveredacre-feet	450 400	43,584 61,409	168,526			16,330 25,596	9,590 14,904	
To farm and residential users onlyorganizations acre-feet	1 400	16 51,012	168,526			25,596	14,904	
To farm and residential users and other irrigation organizationsorganizations		2	,				· ·	
Water to farm and residential users acre-feet Water to other irrigation organizations acre-feet		4,277 6,120	:::				:::	
To other irrigation organizations onlyorganizations	:::		:::					
acre-feet	10	20						
Ill of water from other organizationsorganizations Total water conveyedacre-feet	5,343	44,152	76,436	143,148		1,160	10,260	
Water deliveredacre-feet To farm and residential users onlyorganizations	4,802	39,439 20	61,532			1,160 1	7,695	
To farm and residential users and other	4,802	39,439	61,532	(²)		1,160	7,695	
irrigation organizationsorganizations Water to farm and residential usersacre-feet		:::	:::		:::	:::		
Water to other irrigation organizationsacre-feet							• • •	
To other irrigation organizations onlyorganizations acre-feet								
to water conveyedorganizations	11							
WATER FROM OTHER SOURCES								
Organizations reporting NO water from other sources used on land served by the organizationorganizations	226	339	70	8	20	46	13	
acres served acres irrigated	65,128 52,444	396,131 363,236	483,408 438,758	356,100 344,325	2,887 2,536	31,058 28,576	31,852 29,793	
Organizations reporting water from other sources used			,	,	.,	,	,	
on land served by the organizationorganizations acres served	4,827	13 29,035	13,034	:::	:::	7,672	2,895	
acres irrigated	2,668	22,688	12,744			7,100	2,605	
NEW CAPITAL INVESTMENT, 1950-1959 Expenditures for additional new works and								
equipment for irrigation and drainage.	119	***		_	٠,,	200		
January 1, 1950-December 31, 1959organizationsdollars	10,440,779	1,159,989	12,931,853	4,643,512	3,430	73,245	116,477	
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959								
Total entering conveyance systems in basinorganizations	238 107,139	353 1,090,614	76 1,957,556	1.744.945	20 11.455	48 160,754	302,570	
From another drainage basinorganizations acre-feet		10,320	:::	-,,,				
Prom Drainage Basin number	226	333			20			
From natural sources within basinorganizations acre-feet	107,139	1,080,294	1,957,556	1,744,945	11,455	160,754	302,570	
Surface waterorganizations acre-feet	222 105,889	331 1,075,134	72 1,957,556	1,744,945	16 10,205	46 158,054	14 302,570	
Ground waterorganizations	1,250	5,160			1,250	2,700		
From other organisations in the basinorganisations receiving	11 5,793	38 87,736	12 279,030	143,148		17,490	19,850	
Total leaving conveyance systemsorganizations	238	353	76	8	20	48	15	
Conveyance loss in basinorganizations	112,419 229	1,149,433	2,073,252	1,565,150	11,455 20	177,084 46	286,240 15	
Conveyed to another drainage basin	18,051	193,385	405,776	398,343	1,563	26,202	55,252	
acre-feet	:::	38,199	4,254	536,991		26,069	:::	
To drainage basin number	235	343	74		20	42	14	
acre-feet To farm irrigation water usersorganizations	94,368 235	917,849 343	1,663,222	629,816 7	9,892 20	124,813	230,988 14	
acre-feet To residential water usersorganizations	94,189	908,812 16	1,647,250	627,931	9,892	123,513	223,176	
acre-feet	177	6,255	11,083	15		1,300	7,812	
For other useorganizationsacre-feet	2	2,782	4,889	1,870	:::		:::	
Delivered to other irrigation organisationsorganisations delivering acre-feet	513	28,917	163,334	322,943	:::	1,160	36,150	
AVERAGE DELIVERY OF IRRIGATION WATER FER ACRE, 1959							ĺ	
Per scre irrigated, as reported by irrigation organization: All organizationsacre-feet	1.1	2.6	3.7	3.6	3.9	6.3	6.9	
Organizations reporting NO water from other sources used	226	339	70	, a	20	46	13	
on land served by the organizationorganizatious	1.7	2.5	3,6	2.5	3.9	6.1	6.9	

^{*}Water was transferred to the basin and released to natural stream channels in excess of the quantity of surface water withdrawn by irrigation organizations. The net effect was to increase the avoilable surface water supply in the basin or State.

2Delivered by the organization in another drainage basin.

State Table 5.—NUMBER OF IRRIGATION ORGANIZATIONS, TYPE OF SERVICE, NEW CAPITAL INVESTMENT, AND WATER CONVEYED, BY SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUS OF 1959—Continued

		Bear River an	d Green River			Platte	River	
Item		(III-E au	nd TV-E)			(VI-D ams	ı VI-E)	
(For definitions and explanations, see text)			Size of or	ganization, b	y total water	conveyed		
	0-999 acre-feet	1,000- 9,999 acre-feet	10,000- 99,999 acre-feet	100,000 or more acre-feet	0-999 acre-feet	1,000- 9,999 acre-feet	10,000- 99,999 acre-feet	100,00 or mor acre-fe
Number of organizations	29	61	14	•••	50	79	10	
All water directly from surface and ground sourcesorganizations Total water conveyed	29 14,634 13,190 29	218,212 184,034	14 356,431 298,948 14		40 18,976 15,544 40	60 203,635 167,254 60	8 242,512 189,521	707 251
To farm and residential users and other acre-feet To farm and residential users and other organizationsorganizations	13,190	179,903	298,948		15,544	167,254	117,069	
Water to farm and residential usersacre-feet Water to other irrigation organizationsacre-feet To other irrigation organizations onlyorganizations	:::	3,331 800	:::	:::			30,000 42,452 	77. 174
acre-feet Part of water from other organizationsorganizations Total water conveyedacre-feet Prom surface and ground water sourcesacre-feet		 1 4,760			•••	! 1 1,972	40,048	
From surface and ground water sources	:::	3,960 800 4,284	:::		:::	1,200 772 1,772	23,434 16,614 34,041	
To farm and residential users and other irrigation organizationsorganizations		4,284				1,772	34,041	
Water to farm and residential users	:::	:::				:::		
All of water from other organizationsorganizations Total water conveyedacre-feet	:::	:::	:::		7 3,888	18 37,792	14,956	14.
Water delivered	:::	:::	:::	:::	3,522 7 3,522	34,119 18 34,119	12,713 1 12,713	
irrigation organizations. organizations organizations and residential users acre-feet. Water to other irrigation organizations acre-feet.					:::	:::		
To other irrigation organizations onlyorganizations acre-feet No water conveyedorganizations	:::		:::	:::	3	:::		
WATER FROM OTHER SOURCES Organizations reporting 00 water from other sources used on land served by the organization	28	57	14		46	77	9	
acres served acres irrigated Organizations reporting water from other sources used	7,596 7,566	89,853 82,444	104,118 86,955	:::	17,158 14,059	126,914 124,075	92,047 85,871	209 208
on land served by the organizationorganizations	1 180 180	4 8,099 7,436	:::	:::	1 427 427	2 2,248 2,148	1 7,339 7,339	
NEW CAPITAL INVESTMENT, 1950-1959 Expenditures for irrigation and drainage, January 1, 1950-December 31, 1959	8 8,532	33 139,607	10 239,305		18 4,266,163	28 111,647	5 1,461,402	2,70
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959 Total entering conveyance systems in basinorganizations	29	61	14		47	79	10	
acre-feet From another drainage besin	14,634	225,052 3 10,320	353,551	:::	18,976	204,835	265,946 	70
From Drainage Basin number	29 14,634	59 214,732	353,551	:::	40 18,976 40	61 204,835	265,946	70
acre-feet Ground waterorganizations acre-feet	14,634	214,732	353,551		18,976	202,675 1 2,160	265,946	70
From other organizations in the basin	29	800 61	14	:::	7 3,888 47	19 38,564 79	31,570 10	14
Conveyance loss in basin	14,634 26 1,444	225,052 61 31,174	353,551 13 50,565	:::	22,864 45 3,798	243,399 74 38,202	255,064 10 56,352	67
To drainage basin number	29	6,360 61	4,038		47	79	10	53
acre-feet To farm irrigation water usersorganizations acre-feet To residential water usersorganizations	13,190 29 13,148	187,518 61 187,350	298,948 14 298,948		19,066 47 19,066	79 205,197 79 201,699	198,712 10 193,810	7
acre-feet For other useorganizations acre-feet acre-feet	42	168			:::	1,446 1 2,052	13 1 4,889	
Delivered to other imagino organisations	:::	800	:::	:::	:::	:::	42,452	174
Per acre irrigated, as reported by irrigation organization: All organizations	1.7	2.2	3.5		0.8	1.7	2.1	
on land served by the organizationorganizations scre-feet	28 1.7	57 1.9	14	:::	46 1.3	77 1.6	9 2.0	

State Table 5.-NUMBER OF IRRIGATION ORGANIZATIONS, TYPE OF SERVICE, NEW CAPITAL INVESTMENT, AND WATER CONVEYED. BY SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUS OF 1959-Continued

Item	Yellowst Clarks	Fork direct,	ect above Liv. and Big Horn a and VI-C)	ingston, River	Yellowston	e River exclu Clarks (VI		River an
(For definitions and explanations, see text)			Size of or	ganization, b	y total water	conveyed		
	0-999 acre-feet	1,000- 9,999 acre-feet	10,000- 99,999 acre-feet	100,000 or more acre-feet	0-999 acre-feet	1,000- 9,999 acre-feet	10,000- 99,990 acre-feet 5 42,491 34,369 24,529 11,760 22,7761 22,370 21,760 21,760 21,760 21,760 22,764 23,354 24,463 23,523	100,00 or mor acre-fe
Number of organizationsorganizations TYPE OF SERVICE	79	108	32	5	68	58	5	
all water directly from surface and ground sourcesorganizations	74	102	26	5	62	53	3	
Total water conveyedacre-feet Water deliveredacre-feet	31,663	342,468 274,211	988,966 824,202	1,037,643 698,898	30,431 25,017	142,072 117,844	42,491	
To farm and residential users onlyorganizations	26,034 74	96	1 22	3	59	50	2	
To farm and residential users and other	26,034	243,762	652,492	314,170	24,504	110,732	24,529	
irrigation organizationsorganizations Water to farm and residential usersacre-feet		6 16,724	92,576	236,503	• • • •			
Water to other irrigation organizationsacre-feet	:::	13,725	58,420	148,225				
To other irrigation organizations onlyorganizations acre-feet	:::		20,714		1 513	7,112		
art of water from other organizationsorganizations	1		20,714		713	7,112		
Total water conveyed	430	11,928	152,661			25,347	27,761	ĺ
From surface and ground water sourcesacre-feet From other irrigation organizationsacre-feet	1-20 450	108 11,820	1-18,278 170,939			11,485	22,310	
Water deliveredacre-feet	400	9,768	97,821			19,989	21,760	
To farm and residential users onlyorganizations acre-feet	1 400	9.768	97.821			9,592	21 760	
To farm and residential users and other	1	.,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				22,700	
irrigation organizationsorganizations Water to farm and residential usersacre-feet			:::			4,277		
Water to other irrigation organizationsacre-feet To other irrigation organizations onlyorganizations		• • •		•••		6,120		
acre-feet	:::		:::					
11 of water from other organizationsorganizations	3	1	2					
Total water conveyedacre-feet Water deliveredacre-feet	1,455 1,280	5,200 4,160	51,220 41,124					
To farm and residential users onlyorganizations	3	1	2		:::	:::		
To farm and residential users and other	1,280	4,160	41,124	• • • •				
irrigation organizationsorganizations								
Water to farm and residential usersacre-feet Water to other irrigation organizationsacre-feet			:::			:::		
To other irrigation organizations onlyorganizations	:::		:::	:::				
acre-feet	• • • •							
No water conveyedorganizations WATER FROM OTHER SOURCES	1	•••			6			
brganizations reporting NO water from other sources used								
on land served by the organizationorganizations	75	104	29	5	57	54	5	
acres served acres irrigated	21,845 15,301	78,466 69,085	230,928 212,616	146,965 135,943	15,642 12,982	68,880 58,096	24,463	
organizations reporting water from other sources used	13,501	07,003	212,010	133,743	12,502	20,070	23,525	
on land served by the organizationorganizations	3	5			2	1		
acres served acres irrigated	2,920 861	8,306 6,106	::: l		1,300 1,200	5,510 2,698		
NEW CAPITAL INVESTMENT, 1950-1959		-,			-,	_,,,,,		
Expenditures for additional new works and								
equipment for irrigation and drainage, January 1, 1950-December 31, 1959organizations	30	77	23	3	51	47	3	
dollars	2,682,292	671,947	11,044,365	1,943,512	367,228	163,277	70,304	
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959							-	
Total entering conveyance systems in basinorganizations acre-feet	78 31,643	108 342,576	32	1,037,643	62 30,431	58 153,557	64,801	
From another drainage basinorganizations	31,643	342,576	970,688	1,037,643	30,431	103,007	64,801	
From Drainage Basin number					• • • •			
From natural acurces within basinorganizations	75	107	30		62	58		
Surface waterorganizations	31,643	342,576 107	970,688 30	1,037,643	30,431 62	153,557	64,801	
acre-feet	31,643	342,576	970,688	1,037,643	30,431	153,257	64,801	
Ground waterorganizations acre-feet			:::				1 300	
From other organizations in the basin organizations receiving	4 1	6	6			5	2	
acre-feet	1,905	17,020	222,159			13,862	5,451	
Total leaving conveyance systemsorganizations acre-feet	78 33,548	108 345,871	32 1,113,713	5 889,418	62 29,918	58 154,187	64,684	
Conveyance loss in basinorganizations	78	105	30	. 5	61	57	. 5	
Conveyed to another drainage basinorganizations	5,834	68,437 1	229,484	336,875	5,412	29,306 1	14,123	
acre-feet To drainage basin number		2,290	216			280		
Delivered for use in the basinorganizations	78	108	30		60	54		
To farm irrigation water usersorganizations	27,714 78	275,144 108	884,013 30	552,543	24,506 60	124,601	50,561	
acre-feet	27,579	271,931	880,755	550,658	24,504	123,743	50,561	
To residential water usersorganizations acre-feet	135	2,483	3,258	1 15		1 858	:::	
For other useorganizations		4		2	1			
acre-feet Delivered to other irrigation organizationsorganizations delivering	:::	730		1,870	2		i	
acre-feet	:::	13,725	79,134	148,225	513	13,232	5,568	
AVERAGE DELIVERY OF IRRIGATION WATER PER ACRE, 1959								
Per acre irrigated, as reported by irrigation organization:	2,3	2.4	1.1	4.1	1.4	2.2	2.1	
ALA VIENNIAGUAUMO	2.3	3.8	1.1	4.1	1.4	2,2	2.1	
All organizations. acre-feet Organizations reporting NO water from other sources used on land aerwed by the organization	75	104	29		57			

Water was transferred to the basin and released to natural stream channels in excess of the quantity of surface water withdrawn by irrigation organizations. The net effect was to increase the available surface water supply in the basin or State.

APPENDIX

(393)

PARSON, RANDA PRINCIPLE OF DESIGNATION 1955 Series I.—NAME AND TYPE OF ORIGINATION 1955 By that other same is the organization known. "Now principle of the control of th	This crasses is authorized by Act of Congress, United States Codinguires be answered completely and accurately, and guaranteeing in The census report cannot be used for purposes of leastion, in U.S. OFFARTMENT OF COMMERCE—BURLOU OF THE CENSUS	e, Title I at the in estigatio	3. Sections 5. 9, 142. 2 formation furnished be on, or regulation. (EFINITION. Ab irrigonpany, a corporation.	21. 223. 224. eccorded con ation organization a government	requir fidenti ation is cutal d	ring tha iel treets a grou listrict o	p of two	Budget Bor Approval er or more that op			
Section II.—SAME AND TYPE OF ORGANIZATION A New of Comparison of Comp	parsons, kansas IRRIGATION REPORT	O JSC O	supply water for irrig	ation of farm iformal or con	or rai	nch land ve arrai	ls II n	nay be e	ither a	forma	1,
Section I.—NAME AND TYPE OF ORGANIZATION Presentation Comparison	I-1 CENSUS OF IRRIGATION 1959	1							-d		-
A Sware of any source of the organization known. Now There assers. Sware of the organization known. Sware of the organization known. Sware of the organization of the organization known. Sware organization (José and Color Lamoperated and or undercoperated competitive.) On International Color Co	Section L.—NAME AND TYPE OF ORGANIZATION	111			-	****					
District from ground sources Section N - OBSCORTION OF WATER IN 1855	Name of		flume, meter, or othe	r measuring o		_	in area by	,,			,
December of the companion of the compa	organization										٠,
Section II—WATER USERS AND ACRES SERVED IN 1959 Section III—WATER USERS AND ACRES SERVED IN 1959 Section II—WATER USERS AND ACRES SERVED IN 1959 Section II—WATER USERS AND ACRES SERVED IN 1959 Section II—WATER USERS AND ACRES SERVED IN 1959 Section II—WATER USERS AND ACRES SERVED IN 1959 Section II—WATER USERS AND ACRES SERVED IN 1959 Section II—WATER USERS AND ACRES SERVED IN 1959 Section II—WATER USERS AND ACRES SERVED IN 1959 Section II—WATER USERS AND ACRES SERVED IN 1959 Section II—WATER USERS AND ACRES SERVED IN 1959 Section II—WATER USERS AND ACRES SERVED IN 1959 Section II—WATER USERS AND ACRES SERVED IN 1959 Section II—WATER USERS AND ACRES SERVED IN 1959 Section II—WATER USERS AND ACRES SERVED IN 1959 Section II—WATER USERS AND ACRES SERVED IN 1959 Section II—WATER USERS AND ACRES SERVED IN 1959 Section II—WATER USERS AND ACRES SERVED IN 1959 Section II—WATER USERS AND ACRES SERVED IN 1959 Section II—WATER USERS AND ACRES SERVED IN 1959 Section II—WATER USERS AND ACRES SER	. By what other name is this organization known? None									}	0
Section IV—DISCONTINO OF WATER N 189 Section II—WATER USES AND ACES SECURIN 1959	Whet names	-		-	-		-	and the contraction			6
(a) A farm or mark? (b) A farm or mark? (c) A farm or mark? (d) A farm or mark? (e) Operated by the US Bureau of Bickmardin* (f) Operated by the US Bureau of Bickmardin* (g) Operated by the US Bureau	. Is this organization -(Mark one.)	- _	Section	IV.—DISPOS	SITION	OFW	ATER I	N 1959			_
O Operated by the US Barroun of Indian Affaces. O			INSTRUCTIONS fo	r question 1	0: In	this que	estion st	ow how	the w	ater	
O Ober Ober			acre-feet or millions	of gallons ii	nder".	A" belov	v. If ac	te-feet or	million	s of	
Operation by the U.S. Barroun of looks Affairs, Operation of the control of t			duration of flow under	"B". If all	entries	s cannot	be given	under ei	ther "A	or by	
(D) Othersteel by the U.S. Bureau of Indian Affairs.			cach method								
(a) Other? (Describe)				A Quantit	y of	В	Rate and	i duratio	n of		
(a) Other? (Describe)					Mal	Col			Dura-	cent	õ
Section II.—WATER USERS AND ACRES SERVED IN 1959	(h) Other? (Describe)	16	How much water was disposed of	Acre-feet	hon	per	feet	Mmer's	tion (num-	wate	
Section II - WATER (USERS AND ACRES SERVED IN 1559	(a) Other: (Marking)				lons	min-	second	niciies	ber of days)	sabb.	у
Section II — WATER USERS AND ACRES SERVED IN 1959 Alley many water such were errord by the organization in 1950?			(a) Delivery to individual								
Dec many safet seers were very composed to the composed property of these safet seers, how many were composed to the safet seers.		-	users for irrigation of								
(b) Readenial or domestic Num	and the same of th		farm and ranch lands?						_		6
Section HI — SUPPLY OF WATER IN 1959 Section HI — SUPPLY OF WATER IN 1950 Section HI — SUPPLY OF WATER IN 1950 Section HI — SUPPLY OF WATER IN 1950 Section HI — SUPPLY OF WATER IN 1950 Section HI — SUPPLY OF WATER IN 1950 Section HI — SUPPLY OF WATER IN 1950 Section HI — SUPPLY OF WATER IN 1950 Section HI — SUPPLY OF WATER IN 1950 Section HI — SUP	. How many water users were served by this organization in 1959? None [7] Number		reported in						ŀ		
Section III—SUPPLY OF WATER IN 1550 Do the search for a manular property of the state of the same of the search of the same of the search of the same of the search of the same of the same of the search of the same of the search of the same of the search of the same of the search of the same of the search of the same of the search of the same of the search of the same of the search of the same of the search of the same of the search of the same o	Of these anter users how many were		(b) Delivery to								
Comparison of the content of the surface of the s	water users? None Number These	-	users for	1					l		
Add water sees in (a), (b), and (c) and entire total here— Men many cases of farm and ranch lands were Nome Acres (The should be the area for which water users reported in 4(a) did review or we entitled to review start in 1959. (a) The should be the area for which water users reported in 4(a) did review or we entitled to review start in 1959. (b) Or, of acres cannot be given for question 6(a), what is such from 1959 with water from the organization? Section III—SUPPLY OF WATER IN 1859 Section III—SUPPLY OF WATER IN 1859 Did the organization which in viter in 1950 OF From a great water from the organization? Section III—SUPPLY OF WATER IN 1859 INSTRUCTIONS for question 8. Gave quantity of water obtained from each form of the first organization water or 1950 INSTRUCTIONS for question 8. Gave quantity of water obtained from each form of the interest of the sater delicent to individual waters for irragation point of delicing start of the sater delicing the vite and a start of the sater delicing the vite of water of water only for the property of the property of the sater delicing the vite of water of water only for the property of the property of the sater delicing the vite of water of water only for the property of th	(b) Residential or domestic should be seed be should be	-								١.	,
Add water users in (a), (b), and (c) and enter total here. How many acres of farm and ranch lands were Now Acres	(c) Other? (Describe under REMARKS) None Sumber	-	(e) Delivery to							<u>'</u>	Đ
How many acres of farm and arach lands were None Acres Acres Acres Acres (The double the time for for both we water in profit in 4(a) (Acres Chief would be the time for both we water in profit in 4(a) (Acres Chief would be the time for both we water from the segment of these serves (reported in question 5), were settably irrigated in 1950 with water from the segment of these serves (reported in question 5), which water from the segment of the serves (reported in question 5), which water from the segment of the serves (reported in question 5), which water from the organization obtain water in 1959 Section III.—SUPPLY OF WATER IN 1850 Moring acres counted to the serves (reported in 1950 water from the organization obtain water in 1959 (See From settles sources (i.e. from streams, lakes, reserveirs and drainage disches) by the organization of the serves of the properties of the organization of the serves of the properties of the properties of the properties of the properties of the organization of the serves of the properties of t	Y		other users or for other							١.	
The should be the area for which water were reparted in 4(a) directive or we entitled for every water in 1957 (a) How many of these grees (reported in question 5) (b) by a scene from the organization of the provided with water from the organization of the provided with water from the organization of the provided with water from the organization of the provided with water from the organization of the provided with water from the organization of the provided water in 1959 (c) From gread water sources (i.e. from primping by his organization from canals, flower, f	Add water users in (a), (b), and (c) and enter total here	-	(Describe under							—"	ò
(a) How many of these agrees (reported in question 5) was attempted in 1959 with water from Mercy of a cere cannot be given for question f(e), what percent of these agrees was clearly irrigated in 1959 with water from the organization? No clear the search was clearly irrigated in 1959 with water for the organization? No clear the search was clearly irrigated in 1959 with water for 1959 (e) From surface sources (i.e. from streams, lokes, reservoir and draining attickee) by diversion or pumping by the organization? No clear the search was clearly be organization? No clear the search was clearly be organization? No clear the search was clearly be organization? No clear the search was clearly be organization? No clear the search was clearly be organization? No clear the search was clearly be organization? No clear the search was clearly be organization? No clear the search was clearly be organization? No clear the search was clearly be organization? No clear the search was clearly be organization? No clear the search was clearly be organization? No clear the search was clearly be organization? No clear the search was clearly be organization? No clear the search was clearly be organization? No clear the search was clearly be organization? No clear the search was clearly be organization? No clear the search was clearly be organization? No clear the search was clearly be organization? No clear the search was clearly be organization. No clear the search was clearly be organization. No clear the search was clearly be organization. No clear the search was clearly be organization. No clear the search was clearly be organization. No clear the search was clearly be organization. No clear the search was clearly be organization. No clear the search was clearly be organization. No clear the search was clearly be organization. No clear the search was clearly be organization. No clear the search was clearly be organization. No clear the search was clearly be organization. No clear the search was	served by this organization in 1959? None Acres (This should be the area for which water users reported in 4(a)	- -									
(c) Or, if acres cannot be given for question 6(a), what is the organization of the property of the water from the organization of the property of the water from the organization of the property of the property of the property of the property of the water of the wa	did receive or were entitled to receive water in 1959.)		wastage, and water returned							ļ	
(c) Or, if aeres cannot be given for question (6(a), what 1959 with water from the organization (7). Section III.—SUPPLY OF WATER IN 1559 (a) From surface sources (i.e. from stream, lakes, pumping by the organization (6) the organization of the	were actually dirigated in 1959 with water from	-	draininge							١.	7
1. But this organization obtain water in 1959	(b) Or, if acres cannot be given for question 6(a), what		(e) Conveyance						t		
Distribution Dist	percent of these acres was actually irrigated in 1959 with water from this organization? Percent		(Scepage and		V					-	0
Once Some manufacture of the state of the same of			from canals,		1						
10 10 10 10 10 10 10 10	Did this organization obtain water in 1950		not returned							1	
(6) From general water sources (1) from pumped wells. No Ye											
This TRUCTION for question 8. Give quantity of water obtained from each source mertion restricted from the server from follows. If measurements are in the matter state of the water of water form the server in declination of server from the server in declination of server from the server in the server of the water declination of server from the server in the server of the water of the water declination of server of the server declination of server of the server declination of server of the server server to individual under field AIAINS has been seen that the server of the server declination of server of the server server in the server of the server server in the server of the server server in the server of the server server in the server of the server server in the server of server in the server of the	pumping by this organization? So \(\text{No } \) Is \(\text{No } \)		water was received by								
This TRUCTION for question 8. Give quantity of water obtained from each source mertion restricted from the server from follows. If measurements are in the matter state of the water of water form the server in declination of server from the server in declination of server from the server in the server of the water declination of server from the server in the server of the water of the water declination of server of the server declination of server of the server declination of server of the server server to individual under field AIAINS has been seen that the server of the server declination of server of the server server in the server of the server server in the server of the server server in the server of the server server in the server of the server server in the server of server in the server of the	(b) From ground water sources (i) from pumped wells, flowing wells, and aprings) by this organization? No : Yes :		this organiza- tion, after								
This TRUCTION for question 8. Give quantity of water obtained from each source mertion restricted from the server from follows. If measurements are in the matter state of the water of water form the server in declination of server from the server in declination of server from the server in the server of the water declination of server from the server in the server of the water of the water declination of server of the server declination of server of the server declination of server of the server server to individual under field AIAINS has been seen that the server of the server declination of server of the server server in the server of the server server in the server of the server server in the server of the server server in the server of the server server in the server of server in the server of the	(c) From a canal, pape, or reservoir operated by earther organization?		delivery to users, or losses								
INSTRUCTIONS for question 8: Give quantity of water obtained from each source in value and the distribution of gallons in "A" below. If quantity "If" and the duration of flow. If measurements are not a salable, make the set pessible estimate and explaim under REMARKS has not restinate seven made. INSTRUCTIONS for question 8: Give quantity of water obtained from each source in value and the duration of flow. If measurements are not a salable, make the best possible estimate and explaim under REMARKS has not restinate seven made. INSTRUCTIONS for question 8: Give quantity of water obtained from each source in value and the duration of flow. If measurements are not a salable, make the best possible estimate and explaim under REMARKS has not restinate seven made. INSTRUCTIONS for question 8: Give quantity of water obtained from each source of in militial particular properties of the content of flow. If measurements are not available, make the personnel of flow. If measurements are not available, make the personnel was made for the water. Omit any water used in the properties of the value of the water of a water rights or whether payment was made for the water. Omit any water was discorded in reservoir; (1) Report in R(a) the omount discorded in reservoir; (2) Report in R(a) the omount discorded in reservoir; (2) Report in R(a) the reservoir is left by the original properties of the total amount of nater need to which water was obtained by the origination. On the properties of the total amount of nater need to which water was obtained by the origination. On the properties of the total amount of nater need to which water was obtained by the origination. On the properties of the total amount of nater need to which water was obtained by the origination. On the properties of the total amount of nater need to which water was obtained by the origination. On the properties of the total amount of nater need to which water was obtained by the origination. On the properties of the total amount of nater need to whic	If "Yes" for (c), give name and address below		(f) Total water		- 4						
INSTRUCTIONS for question 8. Goe quantity of water obtained from exchange to mether acce-feed or millions of gettions in "A" below. If quantity cannot be given in these units, give rate of those most of house and the point of delicery los well, those, netter, or other measuring device? [12] Is there are entry for cores posts for question tilted above? No Ves [23] It is the second of the second of the state of the water of water and the distribution of water and the distribution of the water of water gibbs or shother payment was made for the water of water rights or shother payment was made for the water of water gibbs or shother payment was made for the water of water gibbs or shother payment was made for the water of water gibbs or shother payment was made for the water of water gibbs or shother payment was made for the water of water gibbs or shother payment was made for the water of water gibbs or shother payment was made for the water of water gibbs or shother payment was made for the water of water gibbs or shother payment was made for the water of water gibbs or shother payment was made for the water of water gibbs or shother payment was made for the water of water gibbs or shother payment was made for the water of water gibbs or shother payment was made for the water of water gibbs or shother payment was desired from a stream below as received from the reservoir (1) If your mandes water from of the reservoir directly in the organization of water from of the form water seed of the transport of the total amount of water seed to trigget this laint of therein by the organization? [A Quantity of water was diverted from a stream below as received of the value of the water was obtained? If water was diverted by the organization? [Bo much water was diverted from a stream below as reservoir feed of the water was obtained? The script was a stream of the form which water was obtained? The script was a stream of the form which water was obtained? The script was payment was obtained? [Bo much water was diver	County		disposed of?	or one the re	4	and (e)	above 1		L	1005	0
INSTRUCTIONS for question 8: Give quantity of water obtained from each perfect of the properties of th	of Office State	l	This total should	be the same	as the	total fo	r 8(d))				
INSTRUCTIONS for question 8: Give quantity of water obtained from each perfect of the properties of th			of farm and ranch b	rater delivere oids (reporte	d to in	dividual B(al) wit	users fo > measu	r irrigati red .il 1	on he	,	,,
Source in relief sere-feed or millions of gettlons in "A" below. If quantity rannot be given in these must, give rated flow in one of the must-shown inder "B" and the duration of flow." If measurements are not available, make the wave name. Report actual amounts of usite concept during 1959 in canads or pipes operated by this organization grantiles of ownership of the water or water rights or shelter payment was made for the water. Omit any water used from the reservoir and received in mercinical stress problems of the water of the same of											
Report actual amounts of under concepted during 1859 in canals or pipes operated by this regionation regardless of ownership of the water or water only for hydrochetric power. If water uses active in a recercion canal family the second in 1850 to high second canal family to which water was delivered directly by the organization? A (bounts of grant of the stream, not the amount released from the reservoir amount diverted from the stream, not the amount released from the reservoir mutual diverted from the stream, not the amount released from the reservoir of the stream	INSTRUCTIONS for question 8: Give quantity of water obtained from each source in either acre-feet or millions of gallons in "A" below If quantity	'							, , , ,		_
Report actual amounts of water concepted during 1899 in canals or papes operated by the angularistic reportless of watership of the water of water only for hydroclectric power. If water was stored in a reservoir streetly into canals or papes only for hydroclectric power. If water was stored in a reservoir collection of the water of the wat	cannot be given in these units, give rate of flow in one of the units shown under "B" and the duration of flow. If measurements are not available, make the		(a) 11 vo, why wh	is there no co	nveva	ter toss:					
Report actual amounts of uniter concepted during 1899 in canals or papes operated by this seguration regardless of ownership of the water or water coult for hydrochetric power. If water was actored in a reservoir streetly into canals or papes (every flor hydrochetric power.) If water was actored in a reservoir streetly into canals or papes (every flor hydrochetric power.) A Quantity of B Rate and duration of water amount diverted from the stream, not the amount released from the reservoir amount diverted from the stream, not the amount released from the reservoir water water was delivered by the organization? A Quantity of B Rate and duration of water and duration of water and duration of water and duration of water and duration of water and duration of water and duration of water and duration of water and duration of water and duration of water and duration of water and duration of water and duration of water and duration of water and duration of water and duration of water and duration of water and duration of water and water was obtained? Section V—LOCATION OF SOI REES OF WATER AND FARM AND RANCH LAND SUPLIED WITH WATER, 1959 Section V—LOCATION OF SOI REES OF WATER AND FARM AND RANCH LAND SUPLIED WITH WATER, 1959 Section V—LOCATION OF SOI REES OF WATER AND FARM AND RANCH LAND SUPLIED WITH WATER, 1959 Section V—LOCATION OF SOI REES OF WATER AND FARM AND RANCH LAND SUPLIED WITH WATER, 1959 Section V—LOCATION OF SOI REES OF WATER AND FARM AND RANCH LAND SUPLIED WITH WATER, 1959 Section V—LOCATION OF SOI REES OF WATER AND FARM AND RANCH LAND SUPLIED WITH WATER, 1959 Section V—LOCATION OF SOI REES OF WATER AND FARM AND RANCH LAND SUPLIED WITH WATER, 1959 Section V—LOCATION OF SOI REES OF WATER AND FARM AND RANCH LAND SUPLIED WITH WATER, 1959 Section V—LOCATION OF SOI REES OF WATER AND FARM AND RANCH LAND SUPLIED WITH WATER, 1959 Section V—LOCATION OF SOI REES OF WATER AND FARM AND RANCH LAND SUPLIED WITH WATER, 1959 Section V—LOCATION OF SOI REES OF WATER AND FARM AND RANCH LAND SUPLIED WITH WATER,	best possible estimate and explain under REMARKS how your estimates were made.										
Harder was stored in a reservoir.(1) Report in 8(a) the omount discreted power 1 (2) Do not include not could be proposed by the proposed of the 10th amount of notes overly form of the 10th amount of notes overly (2) Do not include not could be proposed to the 10th amount of notes overly (3) Do not include not could be proposed to the straight this lain to the nominal notes overly (3) Do not include not could be proposed to the straight this lain to the nominal notes of the 10th amount of notes overly (3) Do not include not the straight the lain to the nominal notes of the 10th amount of notes overly (3) Do not include not the straight the lain to the nominal notes of the 10th amount of notes overly (3) Do not include not the lain and manufactures of the 10th amount of notes of the 10th amount of notes of the 10th amount of notes of the 10th amount of notes of the 10th amount of notes of the 10th amount of the top nominal notes of the 10th amount of notes of the 10th amount of the 10th amount of the 10th amount of notes of the 10th amount of	Report actual amounts of water conveyed during 1959 in canals or pipes	13	ta) Was now water f	rom other so	arees o	or other	organiza	tions			
Harder was stored in a reservoir.(1) Report in 8(a) the omount discreted power 1 (2) Do not include not could be proposed by the proposed of the 10th amount of notes overly form of the 10th amount of notes overly (2) Do not include not could be proposed to the 10th amount of notes overly (3) Do not include not could be proposed to the straight this lain to the nominal notes overly (3) Do not include not could be proposed to the straight this lain to the nominal notes of the 10th amount of notes overly (3) Do not include not the straight the lain to the nominal notes of the 10th amount of notes overly (3) Do not include not the straight the lain to the nominal notes of the 10th amount of notes overly (3) Do not include not the lain and manufactures of the 10th amount of notes of the 10th amount of notes of the 10th amount of notes of the 10th amount of notes of the 10th amount of notes of the 10th amount of the top nominal notes of the 10th amount of notes of the 10th amount of the 10th amount of the 10th amount of notes of the 10th amount of	rights or whether payment was made for the water. Omit any water used only for hydroelectric power.	"	also used in 1959 to which water w	to irrigate th	r sund	farm a	nd ranch	land	NIL III	Yes I	7
A Quantity of water and duration of water	If water was stored in a reservoir: (1) Report in 8(a) the omount diverted										
A Quantity of water and direction of water and water and direction of water and direction of water and wat	power) (2) Do not include any releases down stream below a reservoir		to irrigate this ha	id in 1959 wit	delive	ered by I	this organ	uration'		. 0	6
A Quantity of Section V.—LOCATION OF SOLRES OF WITER AND FARM AND RANCH Conditions of water flow water was inflamed.	amount diverted from the stream, not the amount released from the reservoir	14	i. What was the average used per acre striga	ge amount of ted on this f	water.	nd rane	h land t	es, lo			
Box much vater was driven that the feet state of	A Outputty of B. Butto and diseason of a store									1 D.)	
How much water was obtained? Constraint	water I now	8	Section VLDCATION	OF SOURCE	ES OF	WATE TH WA	R AND	FARM A	AND R	NCH	
(e) Surface sources? (See 7(a) Include diversion from the process of the sources	How much water was deep Mullion Gallons Cubic Duration (number sullion per feet per much										-
(b) Granud-water sources (c) (c) (c) (c) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d											
(b) Grand-water sources (c) (c) (c) (c) (c) (c) (c) (c) (c) (c)	(e) Surface sources?	- 16	 What is the location of location by giving set 	d point (or pa tion, townshi	ants), p, and	it which range, i	water w f known	as oldan or descri	sed? (1) be by n	escrib ferrin	ķ
(b) Grand-water sources (c) (c) (c) (c) (c) (c) (c) (c) (c) (c)	(See r(w) Include diversion from, but		to the direction and important highway	distance fro (If water w	m a n as divi	earby to erted fro	own or s	some por eam belo	not such	as a ervou	
tb) Ground-water sources? (c) Another organization (See T(c)) (d) Total water		- Nee	report name of streat dien Township	n and locatio Range	n of di ∥∼	rection rection	point, in To	n the re-	R.	inge	
obtained?	tb) Groand-water sources?										
obtained?	(Sec 7(b)) (c) Another	- 0	ther description								
obtained?	organization? (See 7(c))						_				
(Add quantities for (a), (b), and (e).)	obtained?										

QUESTIONNAIRE

Section V	-LOCATION OF S	OURCES	OF WATER A	NO FARM AND RANG	H		REMARKS-Co	outinued					Porm 60 I-1 (8-3-30)
	A STATE OF THE PARTY OF THE PAR	-	-										(n->-30)
17. Locati (a) W	on of farm and ranch hat is the location of ganization?	tands supp the farm a	olied with water and ranch lands s	: upplied with water by t	nis								
County		-	County		-								
Section	Township	Range	Section	Township Range	-								
Section	To waship	Range	Section	Te waship Range									
Section	Township	Range	Section	Township Range	-								
(b) If	location asked for in	question (a	above cannot	be given, describe location ction and distance from	n								
ne	arby stream, valley,	own, or hi	ghway.	coon and distance from	*	'							
-					-								
_					-								
_					_								
-					_								
				EQUIPMENT, 1950-59				-					
18. How	much was spent hy onal new works and e drainage between J ober 31, 1959?	this orga	nization for								-		
end Decen	Irainage between J ber 31, 1959?	anuary 1,	1950, and N	one - \$/	100	_							
(Inch works	de expenditures for or for purchase of or	new const	ruction, enlarge	one series or improvement Include only that portic bei ringation and draina his organization of the co nat include expenditus isnee, payments for wor d, or stock or shares in a is for the purchase of wor inty other irrigation orga-	of on	X							
of the	cost of multiple-pur	ose works If the porti	chargeable to to on financed by t	he irrigation and draina his organization of the ed	ge st								
of wo	ks built jointly with pairs and replacemen	another or	ganization De on and mainten	nat include expenditur sace, payments for wor	es ks								
other	irrigation organizatio	n, or contr	ects or payment ectemetion or a	is for the purchase of wor	ks n-								
izatio	1.)	12.00	and and districted		-								
Section VI	L—WATER DELIVE	RED TO	OTHER IRRIG	ATION ORGANIZATIO	NS.								
					-								
farm operat	his organization deli- and ranch lands in ed or maintained by	1959 thro others?	ugh leterals wi	hich were . No □ Yes	۵l								
I I	"Yes"—												
(1)	rners or operators of "Yes"—	farm and r	anch lands? .	from the . No \square Yes	-								
G	ive name and addres aintaining laterals wi	s of each	organization op	erating or									
	Name	iich receive	payments.	County									
	Post Office			State									
	(If more than one,	hst under	REMARKS.)										
(b) E	id any of the laterals			ner	_								
10	"Yes"				1								
G	ive the name and acterals obtaining water	dress of e	ach organization ource other than	n operating or maintaini n this organization.	ng								
	Name			County	-								
	Post Office			State	_								
	1				ĺ								
1	(If more than one,												
20. Did torgan	his organization deliv ization in 1959?	er any wat	er to any other	lrrigation No 🔲 Yes	ا۔								
If "Y	es"— name and address of												
Give	Name		zation.	County	-								
	Post Office			State									
	rost Office			State									
	(If more than one	list under	REMARKS)		-								
REMAI	KS and explanation	s (please g	ave question ou	mber to which remarks	or								
	ions relate).					_							
						_	21. Name and ac this report	idress of perso	n who should b	e consu	Ited if qu	estions arise concer	гшод
<u> </u>						_	Name		County			elephone No.	
							Post Office			State			
							This report is su	bstantially acc	muste and cove	to	enod		
F						_	Date	Signature			Title of	person	
						_				1	signing t	person he report	
L .								L		1			

-2 No.	U.S. DEPARTMENT OF COMMERCE—BUREAU PARSONS, KANSAS	OF THE CENSUS	company, a corporation, or a governmental district or agency the	more water users, a at operates facilities
	IRRIGATION REPORT		DEFINITION—An arragation organization is a group of two or company, a corporation, or a governmental district or agency the to supply water for arrigation of farm or ranch lands. It may be a organization or an informal or cooperative arrangement.	other a formal, lega
	I-2 CENSUS OF IRRIGATION		Please enter any explanation, for any question, under REMARE	
	on 1.—NAME AND TYPE OF ORGANIZAT	ON	Section III.—SUPPLY AND DISPOSITION OF WATER I	N 1959—Continued
Name of organization			8. How much water was obtained in 1959—	Acre-feet
. By what other n	ame is this organization known?.	None 🗆	(a) From surface sources (i.e. from streams, lakes, reser- soirs and drainage ditches) by diversion or pumping by this organization?	
Other names			by this organization?	
	ion- (Mark one)		(b) From ground water sources (i e from pumped wells, flowing wells, and springs) by this organization?	
	ited mutual or unincorporated cooperative? . I mutual or incorporated cooperative?		(c) From a canal, pipe, or reservoir operated by another organization? (Give name, address, and quantity obtained from each, below)	
(c) Irrigation di			1	
(d) Operated by	the U.S. Bureau of Reclamation?		Name	
	the U.S. Bureau of Indian Aflairs?	. 0	Address	
(f) City or town (g) Other? (De			Name	
(R) Other, (De	scribe)		Address	
			(d) Total water sapply obtained from all sources	- []
INSTRUCTION	IS for Sections II and III All a nestions relating	to water obtained	(Add quantities for (a), (b), and (c).)	
and water delive operated by this	red refer to physical flow of water during 1959 organization, regardless of the ownership of the	in the facilities water or water	 What percent of water from each source was measured by weir, flume, meter, or other measuring device— 	
rights, or whether ically delivered t transfers of water	S for Sections II and III All questions relating red refer to physical flow of water during 1950 organization, regardless of the ownership of the ry payment was made for the water. Report of lealities operated by another organization rights not accompanied by physical flow of wirganization and those of another.	Do not report ter between the	(a) Water from surface sources?	
facilities of this o	organization and those of another		(b) Water from ground sources?	
Section II.	-WATER USERS AND ACRES SERVED	IN 1959	(c) Water from another organization?	
Water delivered	to other irrigation organizations:		(c) Water Hom another organization	- 70
(a) Did this org: farm and ra	anization deliver any water for the irrigation of nch lands in 1959 through laterals which wer maintained by others?	of " No Yes	10. How much water was disposed of in 1959 by-	Acre-feei
If "Yes"-			(a) Delivery directly to individual users for irrigation of farm and ranch lands?	
payments or ranch	of these laterals receive cash s from the owners or operators of farm lands?	No ☐ Yes ☐	(b) Delivery directly to individual users for domestic or residential use?	
(2) Did any from any	of the laterals obtain water y other source? but in regard to answers for s (1) and (2), indicate "Yes.")	No ☐ Yes ☐		
(If in do question	ubt in regard to answers for s (1) and (2), indicate "Yes.")		(c) Delivery to other irrigation organizations? (Be sure to report for each organization for which the answer is checked "i-es" in the shaded square in question 4. Give name, address, and quantity of water delivered to each irrigation organization.	n ed
any other irr	snization deliver any water to igation organization in 1959? r is "Yes" for any of the questions in the	No 🗌 Yes 🗀	Name	
shaded squar is checked as	re—Consider organizations for which "Yes" other irrigation organizations to which	_	}	
organization (Include any	in (1) and (2), indicate "Yes.") initiation doliver any water to igition organization in 1959 is "Yes" for any of the questions in the is "Yes" for any of the questions in the is "Yes" for any of the question in the is "Yes" for a superior organization. In all these in question 10(c) organization, except an individual farm, organization, except an individual farm, organization is man purpose of the lost in the man purpose of the		Address	
which delive even if irriga organization	red any water for farm or ranch irrigation, tion is not the main purpose of the		Name	
Water neers core			Address	
by this orga (Do not melu	Alter users were served directly INIZOTION in 1959 None Nur Margarian None Nur Nur Nur Nur Nur Nur Nur Nur Nur Nur	nber	(If more than two, list others under REMARKS)	
other organiz checked in th	ations for which "Yes" is e shaded square in question 4.)		(d) Delivery to other users or for other uses? (Describe under REMARKS)	
(b) Farm or rand water users?		These should be equal	(e) Spillback, wastage, and water returned to streams and dramage ditches?	
	r domestic users? None Number	be equal	(f) Conveyance loss? (Seepage and evaporation from canals, and wastage in returned to streams. Do not include losses before water was received by this organization, losses after delivery to users, or losses in receivors.)	
(d) Other?	(Describe) None Number	_	returned to streams. Do not include losses before water was received by this organization, losses after delivery to users, or losses in reservoirs.)	
		→	(g) Total water disposed of?	
lands were served organization in 1	of farm and ranch I directly by this 959?	LCTPS	(g) Total water disposed of? (Add (a), (b), (c), (d), (e), and (f)) (This total must equal total water sapply as reported in question 8(d).)	
(This should be t reported in 5(b)	of farm and ranch directly by this None A be area for which water users did receive or were entitled to 1959 Do not include land of users or of water users to whom livered through other e in question 4.		11. What percent of the water delivered to individual users for irrigation of farm and ranch lands (reported in 10(a)) was measured at the point of delivery by weir, flume, meter, or other measuring device?	
nonfarm water the water was de	users or of water users to whom livered through other		10(a)) was measured at the point of delivery by weir, flume, meter, or other measuring device?	
organizotions fo the shaded squar	or which "Yes" was checked in e in question 4.)		12. What percent of water delivered to other irrigation organizations (reported in 10(c)) was measured at point of delicery? (List in REMARKS, organizations to which water was measured.)	
(a) How many of were actually	f these acres (reported in 6) irrigated in 1959 with water from tion?		Clust in REMARKS, organizations to which water	%
(b) Or, if acres c	annot be given for 7(s), of these acres was actually 959 with water from this organization? Per	(-5	13. (a) 1s there an entry for conveyance loss for question 10(f) above?	
			l .	No ☐ Yes ☐
Section 111.	SUPPLY AND DISPOSITION OF WATER	IN 1959	(b) If "No," why was there no conveyance loss?	
INSTRUCTION	IS for Section III. Give quantity of water obtain	ined frum each		
source in acre-fee estimate and exp	S for Section III. Give quantity of water obtained. If measurements are not available, make the lain under REMARKS how your estimates w	e best possible ere made	14. (a) Was any water from other sources or other organization also used in 1959 to irrigate the same farm and ranch lan to which water was delivered directly by this organization?	i d
Report actua operated by this rights or a bar-	tamounts of woter conceyed during 1959 in organization regardless of ownership of the v r payment was made for the water Omit a lectric power.	canals or pipes vater or water	to which water was delivered directly by this organization?	No Yes
only for hydroel	ectric power.	ny water used	Wirex.— (b) Approximately what percent of the total amount of water used to irrigate this land in 1959 was delivered by this organization?	
from the reserv	neetre power, tored in a reservoir; (1) Report in 8(a) the am our directly into canals or pipes (except for not inclinde any releases down stream belo diverted from a stream below a reservoir, repa from the stream, not the amount released from	hydroelectric	water ased to arrigate this land in 1959 was delivered by this organization?	%
power) (2) Do		was reservoir.	15. What was the average amount of water. From all sources, used per acre urigated on this farm and ranch land to which water was delivered directly by this organization?	

Section IV.—LOCATION OF SOURCES OF WATER AND POINTS OF DELIVERY TO OTHER ORGANIZATIONS	REMARKS-Continued		Form 46 1 /8-3-50)
INSTRUCTIONS: Describe location by section, township, and range, if known, or describe by referring to the direction and distance from a nearby town or some point such as an important highway.			
16. What is the location of the point or points at which water was received into the works of this organization—	-		
(a) From surface sources (i.e. from streams, lakes, reservoirs, drainage ditches),			
(a) From surface sources (i.e., from streams, lakes, reservoirs, dramage ditches), by diversion or pumping by this organization (water reported in question 8(a))?			
(I) Give name of aurface source			
(If water was diverted from a stream below a reservoir, report name of stream and location of diversion point, not the reservoir)			
of stream and location of diversion point, not the reservoir) (2) Give location of diversion points.			
1 Sec; T; R 2 Sec, T, R 3. Sec, T; R			
or other description			
(b) From another organization. (Water reported in question 8(c).)			
1 Sec _; T _, R _ 2 Sec _; T _; R _ 3 Sec _; T _, R _			
Other description			
			×
 What is the location of points at which this organization delivered water to other irrigation organizations (named in question 10(c))? 			
1 Sec _; T _; R _ 2 Sec _; T _; R _ 3 Sec; T _; R _			
Other description			
Other description			
Section V.—EXPENDITURES FOR WORKS AND EQUIPMENT, 1950-59	***		
additional new works and equipment for irrigation and drainage between January 1, 1950.			
and December 31, 1959? None S			
(Include expenditures for new construction, enlargment, or improvement of works, or for purchase of additional new equipment. Include only that portion			
of the cost of multiple-purpose works chargeable to the irrigation and drainage of farm and ranch lands, and the portion financed by this organization of the cost			
of works built jointly with another organization. Do not include expenditures for repairs and replacements, operation and maintenance, payments for works			
Unclude expenditures for new construction, enlargement, or improvement of works of for purchase of additional new enquipment. Include only that postion of the cost of multiple-purpose works chargeable to the Irrigation and dramage of farm and ranch lands, and the portion financed by this organization of the cost of works boult jointly with another organization. Do not include expenditures of the cost of works boult jointly with another organization. Do not include expenditures of the cost of t			
REMARKS and explanations (please give question number to which remarks or			
explanations relate)			
			
	-		
	-		
· 	Section VI.—CENSI	S ENUMERAT	OR'S RECORD
· · · · · · · · · · · · · · · · · · ·	19. In what state and drainage basin	or basins) are	the decision of the second of
	19. In what state and drainage basin the following located		Drainage State basin
	(a) Farm and ranch lands served d organization (question 6)? (Ask respondent to show you t on your enumerator's map.)	rectly by this	
	(Ask respondent to show you t on your enumerator's map)	his service area	
	(b) Sources of water to this organi (question 16)?	zution	
	(c) Points of delivery to other organical (question 17)?		
	Note If (a), (b), and (c) are basin, this is an interbasin orgi- section VI	located in more	than one State or dramage
-	20. Name and address of person who sh this report	ould be consulted	
	Name		Title or relationship to organization
	Business address		Telephone No
	Pust Office	County	State
	Enumerated by-		
	Signature	Date	Questionimire No

inqui	This census is nuthorized by Act of Congre ries be answered completely and accurate census report cannot be used for purp	ly, and guaranteeing t	nst th	e information furniabed be accord	and 224 ed confi	requirir dential (g that the rentment		Bureau) al expires	No. 41-5957 December 3
–3 No.	U.S. DEPARTMENT OF COMMERCE—BU PARSONS, KANSAS		USE ONLY	to supply water for irrigation of	vernmed f farm o	tal distr or ranch	ct or age lands.	ncy that It may b	onereta	en facilities
	I-3 IRRIGATION REPOR		OFFICE U	legal organization or an informa	l or cool	erative	arrangem 	ent.		
	CENSUS OF IRRIGATIO		1 6	Please enter any explanation, for Section II.—WATER RECEIVE						n on o
Section	on I.—NAME AND TYPE OF ORGAN	IZATION		IZATIONS—WATER USE	RS ANE	ACRE	SERVE	ED IN 1	959—Co	ntinued
Name of organization				(c) Give name and address the shaded square in qu	estion 5.	Repor	t quantit	v of wate	es" is cl	hecked in red in
By what other	name is this organization known?	Nooe [)	1959 and drainage basin	in whic	h delive:	ry was m	Ac	ere-feet	Draidag basin No
Other games			=	Name				_D')	ivered	Diam. 140
(a) Unincorpor	stion—(Mark one.) sated mutual or unincorporated cooperative d mutual or incorporated cooperative?		, –	Address				}		
(c) Irrigation d (d) Operated b	listrict?									
(e) Operated b	y the U.S. Bureau of Indian Affairs?			Name				_D ₂		
(g) Other? (I	Describe.)		ו	Address				\		
				Name				_D ₃		
	NS for Sections II and III: All question			Address				ſ		
obtained and w the facilities op- water or water any water phys Do not report	ater delivered refer to physical flow of w erated by this organization, regardless of t rights, or whether payment was made for ically delivered to facilities operated by at transfers of water rights not accompanied the facilities of this organization and those	ster during 1959 in he ownership of the the water Report nother organization. by physical flow of		6. Wster users served: (a) How many wster users directly by this organ (Do not include water u other organizations for water the control of	ization	in 1959?	ıah	one 🗆	Numbe	er
water between	the facilities of this organization and those	or another.		in the shaded square in	question	5.)				
Section II.—WA ORGANIZATI	TER RECEIVED FROM, AND DELIVIONS—WATER USERS AND ACRES	ERED TO, OTHER SERVED IN 1959		(b) Of these water users, how many in each drainage basin were—	None	All basins	D.B. No	D.B. No	D.B. No.	-
(a) Did this or from work	I from snother organization: ganization receive any water directly in 15 ss operated by any other organization? ive name of each organization,	959 No 🗆 Yes 🗀		(1) Farm or ranch irrigation water users?						
and report 1959 and d	quantity of water received in rainage basin in which the water d by this organization—	Acre-feet Drainag received basin No		(2) Residential or domestic users?						
Name	R	}		(3) Other?(Describe)						
Address		<u>'</u>	-	Add and enter		•				
Name	R	2		total here		4	← These	should t	e equal	_
(a) Did this or water for th	d to other irrigation organizations: ganization deliver any he irrigation of farm and ranch lands		_	7. Acres of farm and ranch lan (a) How many acres of farm organization in 1959 in c	and ra	n cb land nage ba	sin?			
operated or If "Yes"—		No 🗆 Yes 🗀		(This should be the area receive or were entitled t nonfarm water users, o through other organization	o receiv	e water	in 1959	Do no	t inclu	de land o
(1) Did an	y of these laterals receive cash nts from the owners or operators of r ranch lands?	No ☐ Yes ☐		square in question 5.) None All b.	asins 1	B No	D	B No	_ D.I	B. No
paymer farm or	y of these laterals obtain any water	No ☐ Yes ☐		Acres						
farm or (2) Did an from ar	ny other source?	110 🗀 100 🗀								
(2) Did an from an (1f in d (1) and (b) Did this or	ny other source? loubt in regard to answers for questions l (2), indicate "Yes") ganization deliver water to any other	110 [200 [(b) How many of these acre- each drainage basin with	s (report water f	ed in 7(; rom this	a)) were g organiza	ctually i	rrigated	in 1959 ir
farm or (2) Did an from ar (1f in d (1) and (b) Did this or irrigation of	ny other source? loubt in regard to answers for questions	No 🗆 Yes 🗀		each drainage basın with	water f	rom this	organiza	tion?		in 1959 ir B. No

Section III.—SUPPLY AND DISPOSITION OF WATER IN 1959

INSTRUCTIONS for Section III. Give quantity of water obtained and disposed of in each drainage basis in a reselect. It measurements are not available, make the best measurements are not available, make the best marked as the contract of t

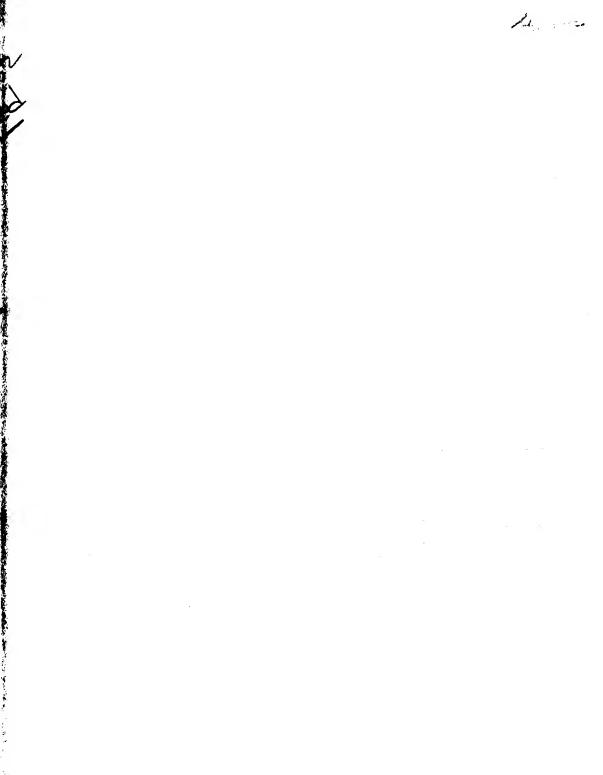
Whate to be included: Report actual one units of units consequed during 1959 in facilities operated by this organization regardless of ownership of water or water rights, or whether payment was made for the water. Report all water transferred in a canal or pipe from one drainage hasin to another for any purpose. Omit water diverted or released only for hydroelectric power, unless transferred to another basin. Any other decharge of water from a canal or pipe into a natural stream or drainage.

Reservoirs: (1) Do not report any water released into the stream channel from an on-stream reservoir. (2) If water was diverted from a stream below a reservoir, consider the stream rather than the reservoir as the source of water, and report the amount diverted from the stream in the basin where diverted. (3) Water taken from a reservoir directly into a causal or pipe should be reported as diverted from the reservoir. If a reservoir operated by this organization received only natural inflows, report this inflow in the source of the water under 8(a), (b), (c), or (e), and the diversion from the reservoir under 8(i).

See enumerator's instructions for further explanations

			Őı:	antity of water in a	cre-feet	
	ater obtained in 1959 in each drainage basin—) From surface sources (i.e., from streams, lakes, reservoirs, drainage ditches) by diversion or pumping by this organization	Totals, all basi		D.B. No.	D B. No.	D.B. No.
() From ground water sources (i.e., from pumped wells, fouring wells, and springs) by this organization					
() From canal, pipe, or reservoir operated by another organization (total reported in question 4)	_				
() Total water obtained by this organization in each basin					
	aterbaein transfers—) Plua water imported to each basin in works operated by this organization.					
	(Give quantity entering basin at drainage basin boundary.) From which drainage basin		From D.B. No.	From D B No _	From D B. No.	From D.B. No.
(Minus water exported from each basin in works operated by this organization. (Give quantity at drainage basin boundary.) 	-	-			To D B. No.
(To which drainage basin $-$ C equals water supply for storage or disposition by this organization in each basin		To D.R. No.	To D.B No	To D.B. No.	10 D B. No.
	II-atream atorage— i) Less water obtained (included in 8(a), (b), (c), or (e) above)					
	and conveyed into reservoirs operated by this organization .		-	_	-	_
	Plus water diverted from the name reservoirs into canals or pipes .	_	J			
4) Equals total water sopply for disposition by this organization io each basin		X			
4	(ater disposed of in 1939 in each drainage basin by—) Delivery directly to identify users for irrigation of farm and ranch lands. (Acres reported in question 7.)) Delivery directly to individual users for domeatic or residential user. (Water users reported in question 6(b)(2).)) Delivery to other irrigetion organizations, in hasin where delivered to works operated by the other organization, reported in 5(c)					
	d) Delivery to other users or for other uses					
	e) Release from a canal or pipe to a atream or drainage ditch (Include wastage, spillback, or release for downstream diversion.)					
	 Conveyance lose within each drainage basin (Seepage and evaporation from canals, and wastage not returned to streams. Do not include losses before water was received by this organization, losses after delivery to users or to other organizations, or losses in reservoirs? Total water disposed of by this organization in each basin (a+b+c+d+e+f) (These totals must equal total water supply for disposition (question 8(f)) in each basin) 					
	Vhat percent of the water from each source (questions 8(a), b), and (c) above) was measured by weir, flume, meter, rother measuring device—		13. (a) Is there an enfor each drains	try for conveyance I age basin?	oss for question 9(f)	. No 🗆 Yes
	a) Water from surface sources?	%	(b) If "No," why	was there no convey	vance loss?	
	b) Water from ground sources?					
	(If entry is not 100% for each of questions 10(a)	%				
	(II entry is not 100% for each of questions 10(a), (b), and (c), explain under REMARKS (1) what percent of each was measured in each drainage basin, (2) how each unmeasured quantity was estimated)			r from other sources 159 to irrigate the sa was delivered direct	s or other organization ume farm and ranch la ly by this organization	is nd ? No □ Ye-
	What percent of the water delivered to individual users for rigation of farm and ranch lands, reported in 9(a), was neasured at the point of delivery by weir, flume, meter, or ther measuring device?	c _o	water used to delivered by t	what percent of th irrigate this land in his organization?	1959 was	
- (f entry is not 100%, explain under REMARKS:) What percent was measured in each drainage basin, and)) How unmeasured quantities were determined)		under REMA 15. What was the ave	rage amount of wate	er, from all sources,	
	What percent of water delivered to other irrigation organizations, eported in 9(c) was measured at point of delivery?		used per scre irrig water was delivere	sated on this farm as d directly by this o	nd ranch land to whic' rganization?	acre-feet per acre
	If entry is not 100%, explain under REMARKS how ach quantity in question 5(c) was estimated)		(If different in eac under REMARK)	h basın, give amoun 8)	t for each	acre-net per acre

Section IVLOCATION OF WORKS OPERATED BY THIS ORGANIZATION	REMARKS-Continued
Mark the following with colored pencil on the census enumerator's map or other suitable map of the enterprise Under REMARKS, list the map used for this	
organization. (See enumerator's instructions.)	
Sources of water obtained by this organization— (a) From surface sources (i.e., streams, lakes, reservoirs, drainage ditches)	
by diversion or pumping by this organization (water reported in question g(a)). Label S ₁ , S ₂ , etc.	
Give name of surface source or sources.	
S ₁	
S ₁	
(b) From another organization, at point where water enters works operated by this organization. Label R ₁ , R ₂ , etc., as reported in question 4(b).	
17. Points of diversion from off-stream storage operated by this organization for which amount diverted is given in question 8(i). Label Oi, O2, etc. Give name of reservoir.	
0,	
O ₁ 18. Points where water is delivered to works operated by other irrigation organizations. Label D ₁ , D ₂ , etc., as reported in question 5(c).	
tions. Label D ₁ , D ₂ , etc., as reported in question 5(c). 19. Area served directly by this organization—	
Outline and shade in color the area within which water is delivered directly to individual farm and residential water users (as reported in question 6(b)).	
Section V.—EXPENDITURES FOR WORKS AND EQUIPMENT, 1950-59	
20. How much was spent by this organization for	
additional new works and equipment for irrigation and drainage between	
January 1, 1950, and December 31, 1959, in each drainage basin? None \$	
Total all basins D.B. No. D.B. No D.B. No.	
	-
Report by drainage basin according to the basin in which the new works and equipment are physically located.	
(Include expenditures for new construction, enlargement, or improvement of works, or for purchase of additional new equipment. Include only that portion of the	
or for purchase of additional new equipment include only that portion of the cost of miltiple-purpose works chargeable to the irrigation and drainage of farm and ranch lands, and the portion financed by this organization of the cost of works built jointly with another organization. Do not include expenditures for repairs and replacements, operation and maintenance, payments for works controlled to the cost of t	
repairs and replacements, operation and maintenance, payments for works con- structed before 1950, purchase of water rights, land, or stock or shares in another	
irrigation organization, or contracts or payments for the purchase of works con- structed by the U.S. Bureau of Reclamation or any other irrigation organization.)	
REMARKS:	2
REWARKS:	
	Section VI.—CENSUS ENUMERATOR'S RECORD
	21. Name and address of person who should be consulted if questions arise concerning
	this report:
	Name Title or relationship to organization
	Business address Telephone No.
	Post Office County State
	Post Office County State
	Enumerated by -
	Signature Date Questionnaire No.
	Signature Date No.



U.S. CENSUS OF AGRICULTURE: 1959

Final Report—Vol. IV

DRAINAGE PROJECTS · SIZE TYPE · AREA SERVED COST · WORKS

The United States

DRAINAGE OF AGRICULTURAL LANDS

Prepared under the supervision of RAY HURLEY, Chief Agriculture Division



U.S. DEPARTMENT OF COMMERCE Luther H. Hodges, Secretary BUREAU OF THE CENSUS Richard M. Scammon, Director (From May 1, 1961) Robert W. Burgess, Director (To March 3, 1961)









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Transportation Division-Donald E. Church, Chief

Statistics in this report supersede figures shown in Series AC59-1 and AC59-2, Preliminary Reports

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PREFACE

Volume IV—Drainage of Agricultural Lands—presents the results of the 1960 Census of Drainage. Data were collected for both organized drainage projects and for individually owned tracts, provided 500 or more acres of land were benefited for agriculture by installed works. The information was collected by both mail and field enumeration from officials and records of organized projects, from county and court records, and from individuals who had knowledge of known projects.

The 1960 Census of Drainage was taken in conformity with the Act of Congress of August 31, 1954 (amended August 1957), which codified Title 13, United States Code.

The planning of the census and the compilation of the statistics, in large measure, were carried on by Hilton E. Robison, Drainage Statistician, under the supervision of Ray Hurley, Chief, Agriculture Division. Assistance was given by Warder B. Jenkins, Assistant Chief, William B. Kauffman, Henry A. Tucker, and Helen D. Turner. The field canvass was conducted under the supervision of Robert B. Voight, then Chief, Field Division, by enumerators trained by employees of the Agriculture Division. The maps were prepared under the supervision of William T. Fay, Geographer.

Acknowledgment is made of the technical assistance of a Special Federal Agency Committee—1959 Censuses of Irrigation and Drainage—and of the central office and local personnel of the United States Soil Conservation Service.

December 1961

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UNITED STATES CENSUS OF AGRICULTURE: 1959 FINAL REPORTS

Volume I—Counties—A separate part for each State. Statistics on number of farms; farm characteristics; acreage in farms; cropland and other uses of land; land-use practices; irrigation; farm facilities and equipment; farm labor; farm expenditures; use of commercial fertilizer; number and kind of livestock; acres and production of crops; value of farm products; characteristics of commercial farms, farms classified by tenure, by size, type, and economic class; and comparative data from the 1954 Census of Agriculture.

Volume I is published in 54 parts as follows:

Part	State or States	Part	State or States	Part	State or States
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	New England States: Maine. New Hampshire. Vermont. Massachusetts. Rhode Island. Connecticut. Middle Atlantic States: New York. New Jersey. Pennsylvania. East North Central: Ohio. Indiana, Illinois. Michigan. Wisconsin. West North Central: Minnesota. Iowa. Missouri. North Dakota.	19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37	West North Central—Continued South Dakota. Nebraska. Kansas. South Atlantie: Delaware. Maryland. Virginia. West Virginia. North Carolina. South Carolina. Georgia. Florida. East South Central: Kentucky. Tennessee. Alabama. Mississippi. West South Central: Arkansas. Louisiana. Oklahoma. Texas.	38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54	Mountain: Montana. Idaho. Wyoming. Colorado. New Mexico. Arizona. Utah. Nevada. Pacific: Washington. Oregon. California. Alaska. Hawaii Other Areas: American Samoa. Guam. Puerto Rico. Virgin Islands.

Volume II—General Report.—Statistics by Subjects, United States Census of Agriculture, 1959. Summary data and analyses of the data by States, for geographic divisions, and for the United States, by subjects, as illustrated by the chapter titles listed below:

Chapter	Title	Chapter	Title
I III III IV V	Farms and Land in Farms. Age, Residence, Years on Farm, Work Off Farm. Farm Facilities, Farm Equipment. Farm Labor, Use of Fertilizer, Farm Expenditures, and Cash Rent. Size of Farm. Livestock and Livestock Products.	IX X XI	Field Crops and Vegetables. Fruits and Nuts, Horticultural Specialties, Forest Products. Value of Farm Products. Color, Race, and Tenure of Farm Operator. Economic Class of Farm. Type of Farm.

Volume III—Irrigation of Agricultural Lands. Western States (Dry Areas)—Data by States for drainage basins and a summary for the area, including number and types of irrigation organizations, source of water, expenditures for works and equipment since 1950, water used and acres served for irrigation purposes.

Volume IV—Drainage of Agricultural Lands. Data by States on land in drainage organizations, number and types of organizations, cost of drainage and drainage works.

Volume V—Special Reports, Part 1.—Horticultural Specialties. Statistics by States and a summary for the United States presenting number and kinds of operations; gross receipts and/or gross sales; sales of nursery products, flower seed, vegetables grown under glass, and propagated mushrooms; number of container-grown plants; inventory products; sales of bulb crops; employment; structures and equipment.

Titles of additional parts of this volume are not available as this report goes to press.

DRAINAGE OF AGRICULTURAL LANDS

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Arkansas	33	77	78	78	78	80	Nevada	53	249	250	250	250	25
California	34	85	86	86	86	88	New Jersey	54	253	254	254	254	25
Colorado	35	93	94	94	94	96	New Mexico	55	257	258	258	258	26
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INTRODUCTION

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INTRODUCTION

DRAINAGE OF AGRICULTURAL LANDS

Presentation of data.—This volume presents statistics on drainage of agricultural lands collected in the 1960 Census of Drainage. The 1960 Census included drainage projects that were benefiting 500 or more acres of agricultural land. The statistics are for areas benefited, 1960, and for drainage operations for the 10-year period, 1950 through 1959. In the presentation selected comparative data are included for earlier censuses. In general, the censuses of drainage have primarily covered community or public drainage undertakings although individual ownership undertakings have been included if the area benefited met the minimum acres requirement.

Data are presented for counties, for States, and for the combination of States, which comprise the conterminous United States, in which drainage enterprises were reported. Maps are utilized to show the approximate location and boundaries of the areas receiving drainage benefits, as ascertained in 1960. Data for the conterminous United States are first presented in a series of summary tables and in an overall map. Several summary tables include information for States. These summary tables and the general drainage map are followed by the tabular data and a map for each State. Each State presentation is accompanied by detailed information for individual counties.

General discussion.—Agricultural drainage refers to the removal, by artificial means, of excess water to improve the condition of land used or to be used for agriculture. Excess water either in or on the soil—whether a temporary or a permanent condition—influences farm production, farm income, and farm values. Too much water in the soil adversely affects crop growth and the timely performance of operations such as tillage, seeding, cultivating, and harvesting including pasturing. Accumulation of excess water may come about from heavy local precipitation; from runoff from upstream areas; from low-lying land in depressions, ponds, and lakebeds; from tidal action in coastal areas; from soil profiles which restrict subsoil drainage; from buildup of a high water table directly as a result of irrigation or from seepage; or from artesian or other underground movement of water.

Good management of land requires management of water. Drainage, irrigation, and flood control, all requiring management, often are interrelated. Large investments of capital have been made by the Federal government and other public or quasi-public organizations; by cooperating groups of individuals; or by single individuals to restrict, provide, or regulate water supplies. On the drainage side, Federal assistance has included measures which provide improved major drainage outlets which may be interrelated with flood control. Secondary drainage works and drainage improvements on private land have been usually undertaken by non-Federal interests, including private landowners. More recently, increased Federal drainage assistance has been available to local agencies, with some limitations, through the watershed protection and flood prevention program authorized under Public Law 566 of 1954 and amendments.

Drainage of land for agriculture has generally been recognized, directly or tacitly, as a public good. As a general rule, the drainage of an individual's land cannot be carried out without the construction of an artificial drain or the improvement of a natural watercourse which affects the land of other individuals. Usually, the improvement of an outlet drain benefits more than one farm

and the cost is greater than any individual wants to assume. Most States have passed laws permitting or encouraging the organization of public corporations or local improvement districts for this purpose.

Previous to the earliest acts for establishing public drains, a number of the States had recognized the right of every landowner to a drainage outlet by providing that an owner desiring drainage could apply to a designated official and upon payment of damages, if the necessity were proved, secure easement to construct and maintain a private drain across his neighbor's land. The drainage laws for the various States have given rise to two principal types of organization and to several minor types. The corporate district and the county drain are the principal types. The first is governed by its own officers, who either are elected by the residents or landowners of the district or are specially appointed by the authority which creates the enterprise. The county drain is established and constructed as any other public work or local improvement, the enterprise being managed by regular officers who have charge of all these enterprises in their county. Some enterprises are administered by a commission or board consisting of one or more officials of the county and one or more members selected by the owners of the land assessed for the cost of the drainage. The minor types of organizations include (1) township drains, which are similar in form to county drains but are controlled by officers of the townships; (2) State drainage projects, controlled by State officials, usually embracing some State land: (3) irrigation districts, similar in character to drainage districts, that have undertaken drainage of land in those districts; (4) commercial companies reclaiming and improving wetland for sale; (5) cooperative or mutual undertakings without formal corporate organization; and (6) individual landowners including farm partnerships and farm corporations.

Physiographic features and the amount of water that should be removed from both surface and subsoil have a direct bearing on the need for, and the nature of, drainage works. Drainage improvements can be in the nature of straightening and deepening natural water channels; construction or replacement of drains, both open and closed types; installation or use of pumps and drainage wells; construction or repair of levees, floodgates, culterts, and bridges; and land leveling. Millions of acres now in agricultural use have been fitted for crop or livestock production by one or more of the methods which hasten the removal of excess water. Some of the most productive lands of the Nation have been improved by drainage and the installation of a drainage work increases agricultural output.

Drainage problems still exist on many acres of farmland. Old or new techniques can make these lands more physically suitable for crops and pasture. A part of the lands still inadequately drained are interspersed with lands adequately provided with drainage. Often an organized drainage district or other collective drainage enterprise has provided the main channels and an outlet for water flow so that remaining works need only be installed by individual landowners. There are extensive areas of wetlands, without or within farm boundaries, without any artificial drainage, whatever, which can be physically improved for crops and pasture. It may be questionable whether it is advisable to make such lands fit for agriculture, or even to make all lands presently in farms fit for a higher type of agriculture.

by means of drainage. This is especially true in periods of farm surpluses. Often wildlife propagation and recreational activities may be more desirable alternative uses of wetlands. There are cases where the health of a community must be given consideration. No doubt the individual landowner usually visualizes some economic gain before he undertakes a drainage improvement. Economic as well as social factors need to be weighed to determine the feasibility and advisability of reclaiming land for farming. Prevailing costs and benefits have not always been sufficient to warrant the maintenance of drainage works after their installation. With the passage of time, it becomes difficult to say whether certain drainage works are still a benefit to agriculture.

History of the Census of Drainage .- Practically all drained agricultural lands lie within the boundaries of operated farms. Such lands may be either inside or outside the boundaries of an organized enterprise that provides drainage works for improving lands for agriculture. The drains and other works for control of water that a farmowner installs upon his own farm, either within or without the boundaries of an organized drainage enterprise, are likely to be either supplemental to or entirely independent of the works installed by an organized enterprise. Officials of an organized enterprise cannot be expected to know in detail the total acres drained or the nature of all drainage works, including those constructed by individual landowners, within the boundaries of their districts. Therefore, the first efforts at gathering information for drainage attempted the full coverage of drainage for farmlands, that is, drainage by both organized enterprises and by individual landowners.

Through the years, a varying amount of basic information has been obtained in respect to the amount and location of farmlands which have been improved by drainage, the type of organization under which drainage has been carried out, the kind of works installed, the purpose of the drainage, the adequacy of the drainage, the capital invested, and the financial situation of the enterprise established for carrying on drainage improvements. Recently, more emphasis is being placed on additions to the drained area in respect to acreage, physical works, and costs. It has been learned that many of the needed data concerning the extent and adequacy of drainage cannot be answered satisfactorily by local officials or individual landowners. Some organizations cease to function after the drainage work has been accomplished and, for farm drainage, the individual landowner either may be difficult to locate in the case of tenant-operated land or may not be in full possession of knowledge of drains long-established on his holdings.

The first census of drainage in the United States was taken in 1920. No provision for inquiries regarding drainage was made in any prior census. In 1920, some facts concerning drainage on farms were collected in the general census of agriculture, while those for drainage enterprises were obtained in a special canvass of those enterprises. Drainage enterprises were to comprise public and private corporations and local improvement districts organized to secure the drainage of land to be used for agricultural purposes; also government projects and other organizations engaged in extensive land drainage work. Questionnaires were obtained also for drainage undertakings, each to benefit 500 acres or more, by individual farmowners. Land furnished protection from overflow by levees, dikes, or embankments was not included unless some form of drainage works had been constructed on the protected land. The land in drainage enterprises was the acreage that had been or was to be benefited by drainage works constructed by the enterprises and, except in a few instances, was the land assessed to pay the cost of the enterprises. The exceptions were irrigation projects installing drains to benefit land damaged by seepage or by alkali as a result of the irrigation, and assessing the cost against the entire irrigation enterprise instead of against only the area needing drainage or protection. Under such circumstances the area thus assessed, but not needing drainage, was omitted from the tabulations. Enterprise data were published for 34 States. No enterprises were found in Alabama, Virginia, West Virginia, or in the 11 States north of the Potomac River.

In 1930, a small amount of data was gathered from farm operators in the general census of agriculture in respect to drainage on farms. Figures were published for the number of farms reporting drainage and the acreage of farmland provided with drainage. A special questionnaire was utilized to cover organized drainage enterprises. Again, the term "drainage enterprise" was broadened to include a tract of farmland of 500 or more acres drained as a private undertaking without legal organization. The area of a drainage enterprise included all the land within the boundaries of the enterprise. It included all land assessed for the cost of the enterprise, and may have included land not assessed because exempted for special reasons. Where the drainage was performed by an irrigation district, that district was also the drainage enterprise. Drainage enterprise data were published for 35 States in 1930. These included Virginia in addition to the 34 States for which data were published in 1920.

Since 1930, no effort has been made to obtain drainage data on the general questionnaire for the census of agriculture. The acreage drained in a particular farm is largely a matter of opinion of the operator, particularly so in the case of a tenant-operator, as to the area actually benefited. The 1930 Drainage Report stated that both the number of farms reporting drainage and the acreage drained were doubtless too low, due to the fact that some enumerators failed to secure answers to the farm drainage questions on the general farm questionnaire.

The third census of drainage enterprises was taken in 1940. A drainage enterprise, for the 1940 Census of Drainage, was defined as the area (1) organized in one drainage district, or (2) assessed for the same public drain, or (3) in corporate or in private ownership drained by works operated as one undertaking. Privately owned enterprises draining less than 500 acres each were omitted from the census, but all enterprises established under State drainage laws were included. Drainage statistics were presented for 38 States. In addition to the 35 States for which enterprises had been found in the 1930 enumeration, enterprises were located in, and statistics were published for, Alabama, Delaware, and Maryland.

In the 1940 Census of Drainage Report, in the discussion of the classification by character of enterprise, mention was made of the difficulty of applying the definitions to distinguish between drainage districts and county drains in all States. In Iowa, for example, almost all of the enterprises were classed as county drains although by law they were named drainage districts. In several other States an enterprise with the term "district," as used locally or even in the statutes, was classified differently. It was said that the district form of organization, being under the management of its own officials, was generally considered more suited to the larger and more costly undertakings, as giving the landowners the greatest degree of local control. The county drain form, administered by county officials, was generally more economical in administrative costs for small enterprises in which the problems of engineering and financing are relatively simple. This form was most common in those States where drainage was promoted for improving land already in farms. The district form was general in those areas where reclamation and development of unimproved lands for making new farms had been an important consideration in promoting the drainage enterprises.

Prior to 1950, all organized drainage enterprises, regardless of size, were covered in each census of drainage. A report was obtained for each enterprise that had constructed drainage works which were still serving agricultural lands or that had contributed to the capital invested in existing works. All unorganized drainage operations on agricultural lands of 500 or more drained acres, conducted by individuals or cooperative groups, were also covered.

For 1950, it was decided to restrict the enumeration of drainage projects to drained agricultural areas of 500 acres or more, regardless of whether they were in an organized enterprise or represented a private operation. Consideration was given to both the expense and difficulty of gathering information for individuals or officials for small acreages of drained lands. These items are more pronounced for those enterprises which have been superseded. Many of the small enterprises had been superseded by later enterprises. For that reason it was decided, in advance of the 1950 Census date, to eliminate enterprises of less than 500 acres from the enumeration. For 1950, a special effort was made to obtain reports for cooperative or group drainage projects to which the Soil Conservation Service had rendered technical assistance.

The decision to limit the 1950 Census of Drainage to enterprises of 500 or more drained acres was based on the following facts. In 1940, there were 79,220 reports secured in the Census of Drainage. Many of these represented enterprises which had been superseded by later enterprises. Although these superseded enterprises were no longer in existence, the works which they had constructed were still serving to drain agricultural lands, or these enterprises had contributed to the capital invested in existing works. Of the 79,220 total, 41,690 were less than 500 acres in size. Of approximately 133 million acres in all enterprises in 1940, only 9 million acres were accounted for by enterprises under 500 acres. Thus, slightly more than half of the enterprises containing about seven percent of the land in enterprises were represented by these small operations. In 1940, about 87 million acres of land were drained. The difference between 133 million and 87 million represented lands which were drained by more than one enterprise. Considerably more than one-half of the land in enterprises of less than 500 acres was shown to be in overlapped enterprises. The exclusion of the very small enterprises had a material effect on the number of enterprises covered but had only a minor effect on the number of drained acres.

Prior to the 1950 Census of Drainage, a preliminary field test was conducted in Ohio, Indiana, and Illinois to determine whether a satisfactory method of enumerating overlapped drainage enterprises had been developed. It was learned that in most of the counties having county drains, there were county maps showing the land in drainage enterprises. These maps were usually prepared by the county engineer or other qualified person. The existing maps and the special knowledge of county engineers or surveyors as to the location of the drained lands could be used to best advantage if overlapped lands in enterprises could be eliminated from the enumeration. This elimination would greatly reduce the cost of both field and office work. It was decided to treat the drained lands of each county, in States having predominantly county drains, as a single enterprise. Thus, only one questionnaire would be filled per county in such States. Most of the overlapped enterprises, and also those under 500 acres, were in three States-Ohio, Indiana, and Michigan. The same economies which prompted the Census to use one questionnaire per county in these three States led to the use of a single questionnaire per county also in Delaware, Iowa, Kentucky, Minnesota, Oklahoma, North Dakota, and South Dakota. This group of ten States was designated as "county-drain" States, although in Delaware the predominant form of drainage organization was the drainage district. An abbreviated questionnaire was used in these "county-drain" States as contrasted with the reporting form used in the other so-called "drainage-district"

In 1950, the enumerators who were charged with the responsibility of securing a drainage questionnaire for irrigation enterprises having their own drainage were often unable to obtain the required information concerning the area and location of the lands benefited by drainage. They could not readily secure an allocation of cost, collections, and indebtedness for the drainage

works separately from the irrigation works. Because of this difficulty, the 1950 information concerning drained lands was supplemented by data secured on the questionnaire for the census of irrigation. In doing so, the restriction of 500 or more drained acres was not applied to irrigation enterprises having their own drainage.

Drainage enterprises were enumerated in 40 States in 1950. Enterprises were enumerated in New Jersey and New York for the first time. The eight States with no drainage enterprises, for the purpose of the census, were the six New England States, Pennsylvania, and West Virginia.

The 1960 Census of Drainage was the fifth of a nationwide series to obtain data in respect to removal of excess water from agricultural lands. After the 1950 experience, a change was considered necessary in the kind of data that could or should be secured in a drainage enumeration. Lands drained solely because of irrigation, to remove seepage water, or to prevent alkali accumulation, were excluded from the Census of Drainage. The theory underlying the change was that these irrigated lands were not first made available for agricultural use through the removal of excess water from naturally wetlands. (See discussion under "Scope of the 1960 Census of Drainage.")

Legal basis for the Census of Drainage.—Each of the five censuses of drainage has been authorized by an Act of Congress. "Title 13. United States Code—Census." codified in August 1954, and amended in August 1957, and September 1960, is now the legal basis for the censuses of agriculture and other censuses, and surveys conducted by the Bureau of the Census. Section 142, paragraph (b), made provision for the Census of Drainage, as follows:

"The Secretary shall, in conjunction with the census of agriculture directed to be taken in October 1959 and each tenth year thereafter, take a census of irrigation and drainage." Section 5 of Title 13 made provision for the preparation of forms and questionnaires in this manner—

"The Secretary shall prepare schedules, and shall determine the inquiries, and the number, form and subdivision thereof, for the statistics, surveys, and censuses provided for in this title." Under authority granted by Section 4 of Title 13, the Secretary of Commerce delegated "the functions and duties imposed upon him by this title" to the Director of the Bureau of the Census.

ENUMERATION FORMS AND PROCEDURES

Preparatory work.—Within the framework of the Act providing for the 1960 Census of Drainage, the scope of the enumeration and the nature and content of the forms and procedures used for taking the census were determined by the staff of the Bureau. In making the decision as to which drainage projects to enumerate, the form of the questions to be asked, and the enumerative procedures to be followed, the staff gave consideration to the experience gained in earlier censuses and to the results of a pretest of the proposed questionnaire and procedures. Careful consideration was given to availability of data from other sources, the adequacy of the data that might be obtained, and the need for and the usefulness of the data.

Two special committees provided advice and counsel to the Bureau. A Special Federal Agency Committee, for the 1959 Censuses of Irrigation and Drainage, comprised representatives of the following ageucies: Agricultural Conservation Program Service, Agricultural Research Service, Rural Electrification Administration, and Soil Conservation Service of the U.S. Department of Agriculture: Bureau of Indian Affairs and Bureau of Reclamation of the U.S. Department of the Interior; and the Bureau of the Census. A second Committee, the Special Advisory Committee for the 1959 Census of Agriculture, reviewed the later stages of the planning. This committee consisted of one repre-

sentative from each of the following: Agricultural Publishers Association; American Association of Land-Grant Colleges and State Universities; American Farm Bureau Federation; American Farm Economic Association; American Statistical Association; Farm Equipment Institute; National Association of Commissioners, Secretaries, and Directors of Agriculture; National Council of Farmer Cooperatives; National Farmers' Union; National Grange; Rural Sociological Society; and the U.S. Department of Agriculture. A representative of the Bureau of the Budget was in attendance at all meetings of this Committee.

Scope of the 1960 Census of Drainage.-Since drainage of irrigated lands for the purpose of controlling alkali or seepage from irrigation generally represents an integral part of the operations performed by irrigation enterprises, such drainage was excluded in the 1960 Census. The 1950 experience had indicated the impracticability of apportioning financial data to drainage, as distinct from irrigation. Drainage for control of alkali or seepage from irrigation was excluded even in instances where the drainage was handled by a separate organization from that which provided the irrigation. In such cases the drainage organization was often a subsidiary of the irrigation organization and, even when not subsidiary, the organizations often shared facilities. Part or all of the maintenance was frequently handled by the irrigation organization. An attempt was made, however, to include drainage operations benefiting naturally wetlands even though such lands may have been irrigated.

The 1950 experience also led to the inclusion in 1960 of inquiries designed to identify extensive contiguous tracts within the project area that were either not being used for agriculture or were receiving no drainage benefits from the facilities provided.

The principle established in 1950 for the "county-drain" States of obtaining one report for all drains under one management was extended in 1960 to all States. The 1950 plan for "county-drain" States was modified to require separate reports for drainage projects under separate management.

The 1960 enumeration, as in 1950, included all projects which provided drainage benefits to 500 or more acres of agricultural lands. A project might represent an undertaking by a legally organized drainage district; by a special district organized primarily to provide some other service; by some other governmental unit; by an individual landowner, farm partnership, or farm corporation; or by a cooperative group of landowners controlling a joint undertaking or carrying out their respective portions of one overall plan.

For intercounty projects separate reports, as in prior censuses, were required for each county part in order to provide drainage data at the county level.

Projects for which the drains still were functioning were included even though the organization responsible for the drains no longer existed. An exception was made for projects taken over by a later organization. If, however, there had been any drainage activity by the superseded organization during the 10-year period, 1950–1959, it was also included.

Information was obtained on the area of the project and for drainage activities for the 10-year period since the preceding census. Where possible, information obtained for the project in 1950, such as the area in 1950 and the mapping of this area, was utilized in 1960 and only the activities and changes since 1950 were recorded by the enumerator in the 1960 enumeration. However, if the 1950 Census records were incomplete, or indicated a need for verification, or if the recorded information was found to be incorrect, the enumerator was required to disregard any information given him for the 1950 Census and to obtain complete information for the project for 1960.

Pretest of questionnnaire and procedures.—A pretest of the questionnaire and field procedures was conducted in July 1959. Four counties were selected to provide a fairly representative cross-section of the problems expected in the enumeration. Vanderburgh County, Indiana, and Henderson County, Kentucky, represented county-drain systems with drains under control of county officials. The county surveyor was directly responsible for county-drain work in Vanderburgh County, Indiana, and a county Board of Drainage Commissioners was responsible for the county ditches in Henderson County, Kentucky, Indiana and Kentucky were enumerated in 1950 as "county-drain" States, one questionnaire being used to enumerate all drainage projects in each county. Massac County and Gallatin County, Illinois, were selected as representative of "drainage-district" areas. For these two counties, each drainage district had its own officials with varied connections with the county government. Massac County was selected particularly to test the effectiveness and adequacy of the questionnaire and procedures for handling projects that extend into two or more counties. [The 1950 enumeration included 618 such projects, in all areas, accounting for 1,292 of the 6,132 reports (other than "irrigation enterprises" enumerated in the Census of Drainage) included in the tabulations for that year.] Gallatin County had projects of several types of organization. It offered experience in handling problems involving overlapping of projects, in obtaining information from a variety of sources, and in obtaining information for projects for which there was no longer any active management or person responsible.

Advance listing of drainage projects.—Just prior to the field enumeration for the 1960 Census of Drainage, a listing of drainage projects was prepared to insure reasonably complete coverage. This listing included the following:

- All projects included in the 1950 tabulations.
- 2. Additional projects, listed or enumerated in 1950 but excluded from the tabulations, where there was a possibility that such projects might qualify for inclusion in 1960. These additional projects included those in the planning stage in 1950, projects started but not completed, and projects reported inactive for many years but which might have been restored.
- Special purpose districts included in the 1952 and 1957 Censuses of Governments where the name or listed functions of the district indicated that the district might be providing drainage services to agricultural lands.
- Projects ascertained by a mail canvass of "irrigation enterprises" reporting 500 or more acres of drained lands in the 1950 Census of Irrigation. (See "Canvass of irrigation enterprises.")
- Projects listed by the Soil Conservation Service as having been undertaken since 1950. (See "Soil Conservation Service canvass.")
- Projects listed by the State of Missouri as having been organized since January 1, 1950. (The Soil Conservation Service could provide no information on drainage activities for 77 Missouri counties.)

For each of these listed projects, the name of the organization was entered on a 1960 Drainage Questionnaire. In most instances, the Bureau was also able to enter the name and address of one or more persons who could be contacted regarding that project. The person listed was generally an official of the organization, or some other person who would have knowledge of the project. These questionnaires were given to the enumerator, in the respective area, in advance of the enumeration.

The listing was considered to be reasonably complete. The 1950 Census provided a reliable listing of projects in existence as of that date. Officials of the Soil Conservation Service were of the opinion that the listing provided by that organization could be relied upon for coverage of additional projects since the 1950 Census. The Soil Conservation personnel had rendered technical assistance for many of these projects. Since the area served by each local office of the Soil Conservation Service generally consists of only one or two counties, the local officials should have had knowledge of any additional drainage operation in their area that would have sufficient size for inclusion in 1960.

Enumerators were instructed to be on the lookout, in the counties assigned, for additional drainage activities that might qualify for inclusion in the census.

For counties for which no projects were prelisted, and counties for which the enumeration was conducted by mail (see "Mail canyass"), the enumeration coverage depended wholly on the advance listing.

Canvass of "irrigation enterprises."—To determine which "irrigation enterprises" included in the 1950 Census of Drainage qualified for inclusion in the 1960 Census of Drainage, a special questionnaire (Form D2) was mailed to each enterprise for which 500 or more acres of land were reported as provided with artificial drainage. This questionnaire determined—

- 1. The individual or the organization responsible for the drainage.
- Whether the need for drainage was solely because of irrigation, or was intended to improve naturally wetlands.
- 3. Whether 500 or more acres were drained by constructed works

Although the 1950 Census of Drainage report carried data for "irrigation enterprises having their own drainage," the 1950 Census of Irrigation questionnaire did not determine whether the organization, group, or person responsible for the irrigation was also responsible for the drainage of the land.

The mailing list was compiled from the 1950 Census of Irrigation reports and from incomplete 1950 Census of Drainage questionnaires representing "irrigation enterprises" having their own drainage works. The 1950 Census of Drainage included 790 "irrigation enterprises" enumerated in the Irrigation Census, with 500 or more acres of irrigated land reported as provided with artificial drainage. The mailing list, compiled on a county basis, consisted of 960 listings to be accounted for. A total of 1,683 mailings was made, including followups for nonresponses, requests for further information, and requests to new respondents named as responsible for the drainage activities.

Satisfactory information was obtained for 87.9 percent of the listings. For most of the others the identification or address was not sufficient to find a satisfactory respondent. Of those for which satisfactory information was obtained, approximately two out of three did not qualify for inclusion in the 1900 Census. For over half (54.2 percent) of those qualifying for inclusion, the drainage was by separately organized drainage districts. Nearly all of these separately organized districts represented projects already listed. Only 99 projects qualifying for inclusion in the 1900 Census of Drainage, and not already listed from other sources, were found as a result of this canvass of "irrigation enterprises."

Soil Conservation Service canvass.—At the request of the Bureau, the officials of the Soil Conservation Service, Washington, D.C., asked each of the State conservationists to require that their work unit conservationists prepare a list of drainage operations for each county in their respective areas.

The work unit conservationists were instructed to include "only projects that provide drainage benefits for approximately 500 or more acres of land for agriculture" and to include only "jobs completed or started since January 1, 1950." They were requested to include "all projects—group, individual, and public—irrespective of whether they received technical assistance from the Soil Conservation Service."

The listing form provided for the inclusion of the name of the project; the approximate acres benefited; whether the project represented a single farm, a cooperative or mutual, or a legally organized project; and the name and address of the person or persons who might be contacted for information concerning the physical works and costs, and for maps or plats. Facsimites of the listing form and of the covering memorandum are included in the appendix.

The projects for which lists were received totalled 4,602 for 610 counties. For each of the other counties, except for 77 counties in Missouri for which officials of the Soil Conservation Service were unable to provide information, either a listing form checked "No projects" or a memorandum stating there were no such projects, was received.

As a result of this prelisting of projects by the Soil Conservation Service, 2,975 projects were added to the Census lists. Of the 9,298 drainage projects (county count) in 1960, more than one-fourth (2,456) represented projects that had been added to the advance listing as a result of the Soil Conservation Service canvass. Of the 4,602 projects listed in the Soil Conservation Service canvass, 2,146 represented projects already listed by the Census, or projects that were found as not qualifying for inclusion.

In the field enumeration, further information obtained from the Soil Conservation Service local offices accounted for a large proportion of the 532 additional projects found by Census enumerators

The drainage questionnaire.—For the 1960 Census, the same questionnaire form (D1) was used for all States. A facsimile of this questionnaire appears in the appendix.

In the arrangement and design of the questionnaire, consideration was given to the use of the form for self-enumeration, maximum use of 1950 information as a guide to the enumerator, simplification in the enumeration, and for the office processing of the data.

The name of the State and county were placed at the beginning of the questionnaire, since they assisted in the identification of a project. For intercounty projects, the portion in each county was enumerated separately and the inquiries, therefore, referred only to the portion within the specified county.

Section I provided for the identification and organization of the project. For all prelisted projects, the identification was entered in advance of the assignment for enumeration. Other inquiries related to the type of organization, the period in which the project or organization was started, and, if an intercounty project, the names of the other counties in which the project lands were situated.

Supplementary information, useful in the processing of the data, was sought through inquiries on whether there was active management of the project, and, if not, whether the project or organization had been dissolved, and whether the organization provided any major public service other than drainage.

Section II was designed to record the drainage activities during the decade, 1950–1959. A series of "No-Yes" questions described the various types of drainage activity and provided for skipping of the remainder of the section if there was no drainage activity. Data were requested for the cost of all drainage works and services, for the physical quantity of each major type of new works constructed, and for the cost of all new works. A descriptive entry was required for types of new works not listed. An inquiry on location of the outlet of the new drainage works helped to identify and locate the lands of the project.

Section III contained inquiries related to the area in the project, starting with the area in 1950. For projects included in the 1950 Census, the 1950 area was posted prior to the enumeration. This was followed by an inquiry on the area added since January 1, 1950, and on the area in 1960. This section also included inquiries to determine if any extensive portion of the land in the project area received no drainage benefits or was not being used for agriculture.

Section IV obtained information regarding areas overlapped by other projects. A distinction was made between land provided separate or supplemental service and land taken over by or from another project.

In Section V, provision was made for listing the name of the person, or persons, who supplied the information and the certification of the filled questionnaire by the enumerator and his supervisor.

Shaded squares on the questionnaire gave notice to the enumerator that additional information was required in respect to the project. Shaded squares opposite the area data indicated that the location and approximate boundaries of these areas must be entered and identified on a map. When this additional work of enumeration was completed, an "X" was to be entered in the shaded square. A shaded square below the inquiry calling for a listing of the other counties involved in an intercounty project served as a reminder that the portion of each of these other counties must be enumerated also.

The questionnaire carried worksheets on the reverse side to facilitate the summarization of drainage activities for the 10-year period and for obtaining a breakdown by counties of data for intercounty projects. A township outline map, also on the back of the questionnaire, provided a place for sketching the location and approximate boundaries of the area served.

Preparation of a drainage map.—In addition to a filled questionnaire, the enumeration of a drainage project required the locating of each project on a map and the outlining of the approximate boundaries of the area served. For projects included in the 1950 Census, the enumerator was furnished a county map on which the location and approximate boundaries of these projects had been entered in the 1950 Census. Thus, the 1960 enumerator generally needed only to map projects not included in the 1950 Census and show changes in areas represented by projects already mapped. Of course, if he found the 1950 mapping to be in error he was expected to correct it. If desired, a separate map or tracing could be submitted, or a sketch drawn on the back of the questionnaire.

Mail canvass.—The listing of drainage projects by the Soil Conservation Service indicated that for 8 of the 48 conterminous States for which no drainage projects were found in the preceding drainage censuses, no drainage undertakings benefiting 500 or more acres of agricultural land had been undertaken during the 10-year period since 1950. Consequently, no further canvass was needed in these 8 States. These States were the New England States, Pennsylvania, and West Virginia.

In Alabama, Georgia, New Jersey, and New York, there were so few projects that a field canvass was not justified, from the standpoint of economy. A similar situation prevailed for Arizona, Colorado, Idaho, Montana, Nevada, New Mexico, Utah, and Wyoming where the need for much of the drainage had developed because of irrigation and the projects would not qualify for inclusion in the 1960 Census. The enumeration in these 12 States was conducted wholly by mail.

In the remaining States, a mail canvass was used for most of the counties for which there were less than 5 known drainage projects to be enumerated. Exceptions were made mostly for (1) "county-drain" States where several drains under the same management might be included in one report, (2) those instances where an enumerator would need to go into the county to complete the enumeration of intercounty projects, and (3) counties that involved a minimum of additional time and travet on the part of an enumerator assigned to an adjacent county. In several instances, enumerators were used to complete the enumeration initiated by mail canvass.

Of 1,336 counties requiring reports, 271 were completed by mail canvass and 1,065 by field enumeration. Of the 1,065 counties completed by field enumeration, the initial canvass in 34 counties was by mail, and in 61 other counties a part of the cumeration was by mail canvass. The 979 projects included in the mail canvass required 2,034 mailings, with the enumeration completed for 870 projects and with 109 projects assigned to enumerators for completion.

A facsimile of the letter used to accompany the mailed questionnaire is included in the appendix.

A mait followup was used to complete the enumeration in instances where the enumerator failed to obtain all the necessary information and the lacking information could not be estimated satisfactorily. The local offices of the Soil Conservation Service provided assistance in numerous instances where there was difficulty in obtaining a satisfactory address or where the necessary information was incomplete. Projects for which assistance was asked were those for which the Soil Conservation Service had provided technical assistance, or legal organizations for which the information could be obtained readily from public records. Many of the legally organized projects, for which information was needed, had been inactive for years, or dissolved with no present management or organization. Dependence was placed, to a large extent, on the Soil Conservation Service for information for inactive or dissolved drainage projects for which no person who was ever associated with the organization could be found.

Field enumeration.—Enumerators for the Census of Drainage were selected from crew leaders and, in a few instances, from enumerators employed in the general 1959 Census of Agriculture. For the 1960 Census of Drainage, 156 enumerators and 21 supervisors were employed. The enumerator assignments averaged about 4½ weeks in duration.

The enumerators and supervisors were trained simultaneously at 10 training locations, selected to provide a minimum of combined travel. The training consisted of two days of technical instruction covering all phases of the enumeration with emphasis on problem situations that could be expected.

The unit of assignment was a county, with each enumerator generally assigned several counties. A drainage enumerator was paid \$1.95 for each authorized hour worked. He was allowed 7 cents per mile for the use of his automobile on official travel, and \$12.00 per diem for living expenses when overnight stops away from home were required.

There was no routine procedure for finding the information needed for the enumeration. The enumeration might require interviews with various individuals and public officials directly connected with specific drainage organizations, or who, because of their public office, might have knowledge of drainage undertakings in the area or records pertaining to such undertakings, or of the present condition and use of lands represented by projects mapped in the 1950 Census. The enumeration of a particular project often required interviews with several individuals and the examination of various public records and maps. Records pertaining to legally organized drainage projects were generally found among the county court records. Sometimes, records were in the hands of town or township officials, or with officials of the drainage organization. At times they were fragmentary. In a few cases records were nonexistent. The records were seldom in such form that the desired information could be taken off directly. When recorded information for an item was not available, the enumerator was instructed to obtain an estimate from a reliable respondent.

Of the 8.485 drainage projects for which data were tabulated in the 1960 Census, 2.348 were inactive the aghout the 10-year period 1950-59. For many of these projects, the enumerator could find no person connected with the organization to furnish information regarding the project. In some instances, projects had been inactive over such a long period of time that few individuals could be found who knew that the project had ever existed. In other cases, the enumeration could be accomplished only through inquiry of local officials or affected landowners as to whether the area shown for the project in the 1950 enumeration included any extensive areas which were no longer receiving drainage benefits or were not being used for agriculture.

Completed counties.—As the enumeration of each county was completed, the enumerator turned over to his supervisor all enumerative materials for the county. The supervisor was required to review these materials, following an outline of checks provided for this purpose. After reviewing the materials a ceach county, the supervisor forwarded them to Wasning on for processing.

OFFICE PROCESSING

Editing.—Upon receipt in Washington, the drainage questionmaires and maps were examined for completeness and consistency in preparation for tabulation of the data and the reproduction of the maps. A check was made to see that all material for each county had been received including a filled questionnaire for each project. The list of projects that had been furnished prior to enumeration was reviewed for coverage. Omitted items of information were supplied, when available from records in the Bureau, or the figures could be estimated with reasonable accuracy. Inconsistencies between the areas stated in the reports and those mapped were reconciled, insofar as possible, on the basis of the information available. When the available information was insufficient to supply missing data, or to reconcile discrepancies, the needed additional information was obtained through correspondence.

For each intercounty project, the reports were checked to ascertain that complete and separate information was shown for each county part without duplication.

Questionnaires representing undertakings or organizations not qualifying for inclusion in the 1960 Census, as well as those representing duplications, were "rejected." In preparing the advance listing of drainage projects, the names of those for which there was insufficient information to determine whether they would meet the 1960 criteria were purposefully included. The enumerator did not make the decision whether a questionnaire should be filled for such projects. On the contrary, he was required to fill a questionnaire, thus providing documentary evidence as to why he project did not qualify. (For 1960 criteria, see "Definitions and Explanations,") Of 11.483 questionnaires returned in the enumeration, 2,072 were later rejected as not qualifying or because of duplication, and 113 were for projects which had been superseded by other projects during the 10-year period, 1950-1959.

All separate materials, including correspondence, sketch maps, etc.; the worksheets on the reverse of the questionaire; and notations entered under "Remarks" or elsewhere on the enumerative materials, were examined for information that might be of assistance in the editing.

To check the mapping, the plat for each drainage project was identified on the county map. If a separate map, sketch, or tracing of a project was furnished, it was checked against the county map. If not already plotted, the project was entered on the county map; if in error, the plotting on the county map was corrected. The location, as shown on the map, was checked against any information as to location given on the questionnaire or other materials such as the name of the project, the location of the outlet, overlapping projects, land descriptions, and the like. The extent of the mapped area for each project was checked visually to see that it was reasonably consistent with the area reported on the questionnaire. Areas omitted from the questionnaire were obtained by planimeter measurement of the mapped areas. If the mapped and reported areas differed substantially, available information in the Bureau, including materials for the project from earlier censuses, were generally sufficient for making the necessary correction.

If extensive nondrained or nonagricultural areas were indicated on the questionnaire, but were not identified on the map, such areas could generally be identified by use of materials available in the Bureau such as aerial photographs and detailed maps showing current cultural and physical information. Likewise, if it was evident that an enumerator had omitted to indicate any extensive nonagricultural areas located within drainage projects, such as cities, airports, recreation areas, parks, military installations, wildlife refuges, State or National Forests, or commercial woodlands, the nonagricultural portions were determined on the basis of these materials

In checking the county map to the questionnaires, careful consideration was given to the delineation of overlapped areas. Often the extent of supersedence of a project by another, or the quantitative determination of areas served by two or more projects, could be determined only by careful plotting of the overlapping projects. In counties with extensive overlapping, the determination of the net area of land benefited by all projects generally, of necessity, had to be based almost entirely on the mapped areas. In fact, for most counties in the "county-drain" States, the net area serviced by county drains could be obtained only by plotting the separate drains, then measuring the overall mapped area. This had been the procedure for the "county-drain" States in 1950; therefore, only additions and deletions had to be considered in 1960.

After reconciling the questionnaires and the mapped areas, a determination of the area served in 1960, excluding any extensive areas not receiving drainage benefits from works of the project or not used for agriculture, was made for each project. The area served by a project included lands served jointly by it and other projects. Any portion of the project which had been taken over by some other project, however, was excluded. The 1960 area in individual drainage projects was used to tabulate the area of drainage projects by size of project, by type of organization, and by year of organization. That portion, if any, of the 1960 area which was provided separate or supplemental drainage service by one or more other drainage projects was also determined.

To obtain net acreage figures for land in drainage projects, counting only once the land in each project, a worksheet was prepared for each county. (A facsimile of this worksheet is included in the appendix.) Since the 1960 enumeration utilized 1950 Census information as a starting point for both the filling of a questionnaire and for performing the required map work, the worksheet also started with the 1950 information. The worksheet provided for posting (1) changes from the data reported in 1950, (2) areas of extensive nonbenefited or nonagricultural lands within drainage projects, and (3) areas served by two or more projects. For each of these categories, each tract of land was to be entered only once. In recording changes in areas since 1950, a distinction was made between lands for which drainage was established before 1950 and areas added in the 1950–1959 period.

To insure reasonable accuracy in the areas mapped, the net totals obtained from the worksheet were checked to planimeter measurements of the mapped areas in the county. A similar check against planimeter measurements had been made in 1950. If there were no substantial changes since 1950, no remeasurement was made for 1960.

Tabulation of data.—The county worksheets prepared in conjunction with the editing were used as a source for posting the total area in drainage projects, counting only once land served by two or more projects. This net area represented the land classified (1) on the basis of agricultural use, (2) by year when drainage was established, and (3) by number of projects providing drainage service. All other data were tabulated by adding the items as determined for each individual project.

Preparation of maps.—After reconciling the maps and questionnaires, a tracing was made of each county map outlining the overall areas in drainage projects, exclusive of any designated nondrained or nonagricultural portions and projects not qualifying under the 1960 criteria. These tracings of individual counties were then used for the preparation of the individual State and the United States drainage maps.

DEFINITIONS AND EXPLANATIONS

General.—Although the definitions and explanations which follow refer specifically to the 1960 Census of Drainage, many of them also apply to earlier censuses. Items for which the 1960 definitions and explanations are not adequate for earlier years are discussed further under "Comparability of data." Most of the definitions consist of a résumé of the questionnaire wording, supplemented by excerpts from instructions given to enumerators.

Drainage of agricultural lands, from the standpoint of adequacy, can represent varying degrees of improvement. Therefore, the term "drainage" is not subject to a precise definition. It can be defined only in general terms, subject to considerable variation in application by individual respondents and enumerators. In most instances, however, the resulting data have reasonable overall accuracy and usefulness. It should be kept in mind that in individual instances, had the information been obtained from other respondents or by other enumerators, the results could have been somewhat different. This situation helps to explain some of the differences in the results obtained in the different censuses. (See discussion of "Comparability of data.") There are many geographic areas for which the totals shown in 1960 for land with drains established before 1950 differ from the total areas in drainage projects as reported in the 1950 Census by amounts greater than can be explained by changes in definition.

The use in the 1960 enumeration of areas drained and mapped lands as obtained in the 1950 Census, undoubtedly, had some influence on the data tabulated for 1960 and for the mapped areas shown for 1960. A disadvantage of this procedure was the possible acceptance of the 1950 information in instances where more reliable data could have been obtained. The 1960 enumerator, however, was instructed to correct any errors found in the 1950 enumeration. It is likely, therefore, that the undetected errors were fewer than would have resulted in an enumeration that did not make use of information collected previously. On the whole, this practice probably did not influence the 1960 data appreciably.

Drainage.—The term "drainage" as used in this volume refers to agricultural drainage. Drainage is the removal, by artificial means, of excess water to improve the condition of the land for agricultural use. Drainage is accomplished by means of constructed works and may represent deepening, widening, or straightening of a natural channel; the construction of open ditches; the installation of underground tile or conduits: the construction of drainage wells; the installation of pumps for removal of water; or a combination of these methods, including associated works such as dikes or levees, floodgates, bridges and culverts, land leveling, and removal of snags, brush, or other obstructions which impede water flow.

Storm sewers, sanitary drains, highway ditches, and drains for industrial sites were not considered drainage works, for purposes of the census, unless they also accomplished improvement of agricultural lands.

The mere protection of land from flood waters or from surface runoff, with no drainage works provided to remove gravitational soil water from the protected lands, was not considered as drainage. Flood control works may involve (1) channel construction or improvement, (2) the inclusion of floodgates and outlet drains through the constructed levees so as not to impair natural drainage or drainage previously established, or (3) work on levees or ditches associated with drainage. As a consequence, it was sometimes difficult to distinguish between works serving for flood control only and those providing drainage benefits. Thus, some flood control projects of the U.S. Corps of Army Engineers, or portions thereof, were considered as providing drainage services and included in the 1960 Census. Examples include several channel improvements in the Delta and other

alluvial areas in the Mississippi River basin. These, generally, had been listed by the Soil Conservation Service as projects undertaken since 1950 that provided drainage benefits to 500 or more acres of agricultural land. Another example of borderline projects included were those for which construction or enlargement of levees was accomplished by the U.S. Corps of Army Engineers, but for which future maintenance was the responsibility of drainage districts.

Drainage works constructed solely for the removal of irrigation seepage water or for removal of alkali from the irrigated lands were excluded for the purposes of the 1960 Census. Similarly, when a drainage well or ditch served primarily as a source of irrigation water, with drainage no longer a problem, such projects were not to be included. Drainage established because of irrigation, generally, is so tied in with the irrigation works that it should be considered a part of the irrigation works and system rather than drainage. (See "Scope of the 1960 Census of Drainage,") Drainage operations benefiting naturally wetlands were to be included in the 1960 enumeration, even though such lands were also provided with irrigation. As with drainage coupled with flood control, there was evidence of lack of uniformity in determining when drainage of irrigated lands qualified for inclusion. In a few instances, conflicting information was obtained from different respondents for the same project.

Drainage project.—A drainage project is a plan undertaken as a unit to provide new construction, or to provide maintenance and operation of existing drainage works. A drainage project represents an undertaking under one control, supervision, or guidance.

A drainage project may be undertaken by a single landowner. Often, a farmowner cannot accomplish optimum drainage of his land, acting alone. Obtaining an ontlet for his ditches may involve crossing some other owner's land. As a consequence, much of the drainage in the United States has been accomplished as community undertakings, participated in by landowners who have common drainage interests. The administrative structure set up to provide unified action for handling the drainage problem is referred to as its organization. All drainage activities under the direct supervision of one organization or management comprise one project. A drainage project may refer to an accomplished plan, i.e., the physical works have been provided and no further work or maintenance is anticipated on the part of the original organization.

For the 1960 Census, all drains constructed and/or operated by one organization were considered as one project even though they were noncontiguous and were constructed at varions times. For example, all public drains under the administration of county officials, or under a special board set up to administer public drains in the county, are treated herein as one project. (See discussion of "County-drain" States.) Similarly, drainage subdistricts administered by the officials of the parent district were generally included with the parent district.

When identified, all drains, formerly but no longer under county jurisdiction and with no present organization responsible for their maintenance, were grouped together and included in one separate report. Such drainage "district" may have been discontinued through petition of the landowners or other legal action, or may no longer be considered as under county jurisdiction because of years of inactivity. The instructions to enumerators did not ask specifically for the identification of county drains that had been withdrawn from the county system. The enumeration instructions specified that for most counties in "county-drain" States, the net area had been satisfactorily determined and mapped in 1950 and, therefore, it would be necessary only to determine the area brought in by new drainage works since 1950. Thus, occasionally a 1960 report for county drains may have included some drains not identified as not being under county management in 1960.

For Delaware, which had been enumerated as a "county-drain" State in 1950, even though the predominant form of drainage organization was the drainage district (see discussion of "County-drain" and "Drainage-district" States), a similar procedure was followed even though each of the inactive drains, arbitrarily combined in the one report in 1960, had originally had its own separate organization. The extensive overlapping and supersedence, which had occurred through years of drainage activity in the State and which had led to the use of a county questionaire in 1950, was responsible for similar treatment of all inactive drains in 1960.

Only projects providing drainage benefits to 500 or more acres of agricultural land as of January I, 1960, were included in the 1960 Census. (See definition of "Drainage.") Enumerators were instructed to consider as agricultural land all woodland and wasteland within farms. They were instructed not to consider as agricultural land any areas, used solely for the production of wood or timber, which were not a part of a farm.

A project need not provide complete drainage for the area served. Many projects, especially public drains, provided only the principal channel or outlet drain. The construction of the laterals and field drains, which were required to provide complete drainage of the land, may have been left to the individual farm owners. These supplemental drains, though providing drainage to the same area and necessary for the complete drainage system, were not included with the project for which they furnished supplemental works, but each was considered a separate project, and was separately enumerated if benefiting 500 or more acres.

For projects for which works had been taken over by another project (see "Superseded projects."), any portion not taken over was considered a separate project. If the entire project had been taken over, or if the portion not taken over was less than 500 acres, the project was excluded from the census.

The term "project," for describing the unit for enumeration in the 1060 Census, was usually used in preference to "enterprise" or "organization." "Project" more nearly indicates the physical works represented. "Enterprise" or "organization" refers more to the management and implies reference to all activities of the management which may include functions other than drainage. Furthermore, "organization" implies current active management of a group undertaking. The 1960 Census also included projects for which there was no longer an organization in addition to projects having a definite organization, and projects established by individual owners and cooperative groups without formal organization.

Intercounty projects.—For drainage projects extending into two or more counties, a separate report was obtained for the portion in each county. In presenting data by counties the portion in each county was treated as a separate project, but in presenting data by States the entire project was considered as a unit. Thus, the count of projects shown by counties in County Table 1 will not add to the count shown for the State. Differences in the "county count" and in the "State count" are shown in Summary Table 6. In the 1960 Census, 727 intercounty projects were reported with 1,564 county portions. Of these intercounty projects, 643 included land in two counties; 77, in three counties; 3, in four counties; 2, in five counties; 1, in seven counties; and 1, in eighteen counties.

For intercounty projects, the determination of whether the project qualified, from the standpoint of acreage, for inclusion in the 1960 Census was based on the entire project. For that reason, some county parts, treated as separate projects in the presentation of data by counties, represented fewer than 500 acres of drained agricultural lands.

If separate records of the drainage activities for each county part were not available for an intercounty project, the enumerator was instructed to allocate on an area basis, or other equitable basis, the portion applicable to each county.

For intercounty drains represented in county-drain systems, the enumeration instructions required that the portion in cach county be included in one report covering all county drains in the county. This procedure was to be followed irrespective of whether each county part was administered separately, or whether the entire project was administered wholly by one of the counties or jointly by the counties affected. (See "Prainage projects by size.")

Superseded project.—Many drainage organizations were established for a specific purpose such as to construct new drainage facilities, or to renovate or enlarge facilities established by an earlier organization. Upon accomplishment of its immediate objective, the organization often became imactive or was dissolved. When further work was needed, a new organization was established. The new project may have included the same land, more acreage, or less acreage. Over the years there has been extensive overlapping of drainage projects, only a portion of which may now have an active organization. (See "History of the Census of Drainage.")

Projects wholly superseded prior to 1950 were generally excluded from the 1960 enumeration. Those wholly superseded between 1950 and 1960 were always excluded from the 1960 count of drainage projects. If, however, a superseded project reported drainage operations during the decade, 1950–1959, such operations were included in the data presented for drainage operations, 1950–1959. (See Summary Table 6.) Occasionally, this resulted in a greater number of projects reporting operations during 1950–1959 than the total number of projects in 1960.

Control of a project may pass from one organization to another through court action. More often, change in control has occurred when an organization originally responsible for the construction and the maintenance merely ceased to actively operate the drainage works or to provide maintenance, and these functions were assumed by a new organization or management; or the old works were replaced or incorporated in the works of a new organization.

Whenever the area of a project with no active organization was overlapped by one with active organization, or by one more recently organized if neither project had active organization, the editing procedure required that the overlapped area be considered as having been taken over by the active or more recent organization. Projects of less than 500 acres and, therefore, not included in the Census, were never considered as having taken over works of another project.

Area in drainage projects.—The area in a drainage project is usually the area benefited by the drainage works. For a project undertaken by landowners, either individually or cooperatively, it is the area improved or benefited for agriculture as a result of the drainage facilities provided. For a legally organized drainage project, the area in the drainage project is the area established by the decree setting up the drainage district or project. If public drains are administered on a countywide basis, or on the basis of established political boundaries, it is the area directly benefited by the drainage works. In special districts organized primarily for purposes other than drainage, it is the entire area in the district even though only part may be benefited by the drainage works.

The area served by two or more projects was included in each project. The area taken over by one project from another was included in only one, usually the later project. (See discussion of "Superseded projects.")

Since the area of a legally organized project is that established by the court or other authority, it has definable boundaries. If special taxes were collected for the drainage, the area taxed can be considered as the area in the project. The 1930 Census made a distinction between total area and area assessed but the difference amounted to less than one-third of one percent. Changes in area of a legally organized project may occur because of addition or deletion of land through action of the court or other authority responsible for the organization. Within the boundaries of a project there may be tracts that receive no drainage benefits or land not assessed. Such excluded areas may or may not have been shown in the mapping. This may account for some of the differences between reported and plotted areas.

Generally, the area in a public or legally organized drainage project represents the area benefited. In some instances, however, land liable as security for bonds or other obligations of a drainage organization may include some high or ridge lands with adequate natural drainage, or some wetlands not reclaimable. Also, the project area may include some benefited land not utilized for agriculture. The 1960 enumeration provided for the determination of any contiguous areas, totaling 500 or more acres, not used for agriculture or not benefited by the drainage works. (See "Area not used for agriculture or not drained.")

For organizations providing a major public service other than drainage, the area may include the entire district although the drainage service provided may benefit only a portion of it.

For projects owned by one landowner and projects representing drainage undertakings of two or more landowners cooperating without organization under statute law, the determination of the area was less precise and represented the judgment of the respondent as to the area improved or benefited. The area was often estimated by the Soil Conservation Service in the case of projects for which they provided technical assistance.

The presentation of the 1960 data includes several items relating to area in drainage projects for which a special explanation is considered necessary.

1. Total area in drainage projects, as presented in line 5 of County Table 1, line 4 of State Table 1, and Summary Tables 1 and 5, and Land in drainage projects as presented in column 1 of Summary Table 7 represents the total area of land, within the specified geographic unit, that was in drainage projects included in the 1960 Census. Land in two or more drainage projects was counted only once. This item includes some land not used for agriculture and some land not drained. (See "Area not used for agriculture or not drained.")

2. Net area drained and used for agriculture, as presented in line 8 of County Table 1, line 6 of State Table 1, and Summary Tables 1 and 5, and Land in drainage projects as presented in column 1 of Summary Tables 8 and 13, excluded extensive contiguous areas of land not used for agriculture and land not drained. (See "Area not used for agriculture or not drained.") Land in two or more projects is counted only once.

3. Totals of areas of individual projects, as presented in line 10 of Summary Tables 1 and 5, column 15 of Summary Tables 8, and the area data for drainage projects classified by size of project, by type of organization, and by year started or organized (County Table 1, State Tables 1 through 4, and Summary Tables 1 through 5, and 11, 12, and 13) represent the sum of the areas in individual projects with no deduction for land included in two or more projects. Extensive contiguous areas of land not used for agriculture and land not drained were excluded from this item. (See "Area not used for agriculture or not drained.") The difference between this item and the preceding item is due to land served by two or more projects. (See "Area served by two or more projects.")

Area not used for agriculture or not drained.—The area in drainage projects frequently included land that was not being used for agriculture or land that was not receiving drainage benefits from works installed or operated by the project. (See definition of "Area in drainage projects.") Two questions (16 and 17) on the 1960 Drainage Questionnaire identified contiguous tracts of 500 or more acres of such land within the area reported for the project. The area not benefited might represent land for which the drainage works had completely deteriorated or land for which no drains had been provided. For a project which provided both drainage and flood protection, the questionnaires identified, for exclusion, any land protected from overflow with no drains provided. Land with drainage required solely because of irrigation was, likewise, identified and excluded.

Land within drainage project boundaries not used for agriculture might be wasteland, cutover land, residential or industrial areas, airports, military installations, public parks, wildlife refuses, State or National Forests, commercial woodland, or other lands in nonagricultural use.

Inquiries which served to identify areas of nonagricultural or nonbenefited lands within drainage projects could not be utilized advantageously to locate all such lands. For that reason, the effort was restricted to the determination of contiguous areas of 500 or more acres. In the application of this requirement, small scattered tracts of benefited agricultural lands, in extensive areas predominantly nondrained or nonbenefited, were sometimes disregarded in the enumeration or in the office processing. Enumerators, also, occasionally failed to report areas, such as towns, airports, public parks, wastelands, etc., which obviously were nonagricultural or nonbenefited. This omission may have been due to misunderstanding as to the nature of the information available for the project from the 1950 Census. Information for lands not used for agriculture or not benefited was not obtained in 1950. The 1960 instructions had stressed the need for obtaining changes in operations since 1950. With no change in the situation, the enumerator may not have been aware of the need for this information. Whenever an omission was indicated, the nonagricultural or nonbenefited areas were determined through correspondence or from examination of maps and aerial photographs available in the Burean.

The item identified in the tables as "Net area drained and used for agriculture" was obtained by subtracting, from the total area in drainage projects, only the included tracts of 500 or more contiguous acres reported as not used for agriculture or not drained. Thus, the area shown as drained and used for agriculture may include many acres of interspersed nonagricultural or nondrained lands in tracts of less than 500 contiguous acres. This explains why the "Net area drained and used for agriculture" reported for a county sometimes exceeds the total land area in farms.

In the tables showing the total areas of individual projects classified by size, type of organization, and year started or organized, any contiguous tracts of 500 or more acres identified as being nonagricultural or nondrained were excluded. If the total area served by an individual project, exclusive of such nonagricultural or nonbenefited lands, was less than 500 acres the project was "rejected" and excluded from the 1960 totals. For intercounty projects the determination was based on the entire area, and not on the portion in each county.

The exclusion of nonbenefited portions, in the presentation of area data for projects classified by size, by type of organization, and by year started or organized, resulted in the data for one Florida county showing one project with no acres. A major project reported for Florida extended into 18 counties several of which were reported as receiving no drainage benefits as of January 1, 1960, from works constructed or operated by the project. Much of the work done prior to the census date represented planning and engineering. Completed construction and costs for operation of drainage works were limited, as of January 1, 1960, to 9 of the 18 counties.

Land by year drainage was established.—The area drained and nsed for agriculture was classified, on the basis of when the drainage was established, into two groups, as follows: (1) Drainage established before 1950 and (2) area added 1950-1959. If a project took over the works of another, or provided supplemental service to an area included in an earlier project, the land was usually classified on the basis of the drainage established by the earlier project. Thus, land reported as in drainage projects in the 1950 Census was, with few exceptions, classed as provided with drainage prior to 1950. Generally, for drainage projects reported as organized or started prior to 1950, all the land reported as in the project on January 1, 1950 (question 13 on the questionnaire) was classed as having drainage established before

1950. Land reported as added since January 1, 1950 (question 14 on the questionnaire) was considered as land with drainage established since 1950, provided new works were reported and the added area did not represent an overlapping of area included in the 1950 area of some other project. Additions to a project, which had been made because the lands were already receiving drainage benefits, were not considered as "area added 1950-1959."

For a project started in 1950 or later, the entire area, except for any portion overlapping an older project, was classed as having drainage established in the 1950–1959 period. Usually, the determination of drainage established for new areas was supported by reports of newly constructed drainage works. In a few instances, the drainage works reported for the newly drained lands consisted entirely of cleanout or restoration of old works. If the land had not been included in the 1950 Census, or in another project reported in 1960, the area was classed as having had its drainage established in the 1950–1959 period, on the assumption that the old works requiring renovation had ceased to provide the area with drainage benefits.

The assessed or taxed area of a project sometimes included land for which the drainage had not been established. In the case of an organization providing a public service, other than drainage, only a portion of the area of the project may have been receiving drainage benefits. For this reason, there were some instances where the 1950 area of a project included land for which drainage was actually first established since 1950.

Land classified on the basis of when drainage was established should not be confused with land reported for drainage projects classified on the basis of when the project or organization was started. (See Summary Table 13 and discussion of "Drainage projects by year started or organized.")

Area served by two or more projects.—The area served by two or more projects was obtained (1) through the questionnaire inquiries on overlapped area (Section IV of the questionnaire) and (2) by checking the mapped boundaries of each project. Careful determination of the overlapped areas was essential to the determination of the net land benefited by drainage projects and, for that reason, received special consideration in the editing process. A distinction was made between areas taken over and areas provided separate or supplemental service.

Usually, separate or supplemental service was the result of one project providing the outlet drainage facilities and another the laterals or branch drains. Or, each may have provided certain specified drainage works or services. Sometimes three or more projects provided service to the same area. As a general rule, the editing instructions considered that overlapped areas, as determined from the mapping of the lands in each project, represented dual service except when it was determined that one project had taken over the lands of another.

In making the determination of the area served by two or more projects, consideration was given to possible errors in mapping. If the plotted areas of two projects indicated overlapping, but the net area mapped for the two projects was equal to the sum of the areas reported for each without any deduction for overlap, the projects were considered as not having any area in common. A similar determination was made for adjoining projects when one did not provide an outlet for the other. The apparent overlap may have been indicated solely because the source materials for mapping did not reflect all revisions in the boundaries of each of the two projects.

In presenting the portion of the net land area in drainage projects represented by tracts served by two or more projects (line 11 of County Table 1, line 9 of State Table 1, and Summary Tables 1 and 5, and columns 7-10 of Summary Table 8), each tract served by two or more projects was counted only once. In presenting the portion of the totals of areas of individual projects provided with service by one or more other projects (column 3

of State Tables 2, 3, and 4; also column 3 of Summary Tables 2, 3, and 4) each tract receiving service from two or more projects was included for each of the projects. The differences in the totals shown for these two items were the result of the multiple counting, in the latter, of land served by two or more projects. Lands served by two projects were included in each of the two projects; lands served by three projects, in each of the three; etc. The total net area drained and used for agriculture, likewise, does not contain any duplication of land served by two or more projects but the totals of the areas of individual projects include multiple counting of the land included in more than one project.

Approximate land area.—The approximate land area comprises land in farms, cities, forests, swamps, deserts, etc., and the area occupied by streams, sloughs, estuaries, and canals less than one-eighth of a mile in width, and lakes, reservoirs, and ponds of less than 40 acres. Changes since 1940 reflect political changes in boundaries or actual changes in land area caused by changes in number and size of reservoirs, lakes, etc. The figures for 1940 represent a complete redetermination of the area and may differ from those shown for earlier years.

Land in farms.—The acreage designated under "Land in farms" was obtained in the census of agriculture. The "land in farms" figures, shown in the tables presenting data for the 1960 Census of Drainage, are from the 1950 Census of Agriculture taken in the fall of that year. "Land in farms" consists primarily of lands used for agriculture, but also includes considerable areas not actually under cultivation nor used for pasture or grazing. All woodlands and wastelands owned or rented by farm operators were included unless being held for nonagricultural purposes or unless the acreage was unusually large.

Drainage operations, 1950-1959.—For each project included in the 1960 Census, information was obtained for drainage activities for the 10-year period, 1950 to 1959, inclusive. The 10-year period could be on either a calendar- or fiscal-year basis. In either case a report was intended to include a full 10-year period. For convenience, a worksheet was provided for entering data for each of the 10 years.

Reports on drainage works and services during this 10-year period were required for all projects which, at any time during the period, provided drainage benefits to 500 or more acres which were being used for agriculture in 1960. The data for drainage works and services, therefore, include totals for some projects which had been taken over by another project prior to 1960.

When a project provided a major public service in addition to drainage, the enumerator was instructed to include with the drainage works ditches, pumps, or other works, or portions thereof, that accomplished drainage of agricultural lands even though these served primarily as storm sewers, sanitary drains, highway ditches, or for the drainage of residential or industrial sites, or for irrigation, or for some other special purpose. If no separate records were kept, costs and works were to be allocated to provide an equitable share to agricultural drainage. If the allocation was not made in the field enumeration, the allocation was made during office processing, unless the amounts involved were exceptionally large. In the latter case, the information was obtained through correspondence.

Cost of all drainage works and services.—The inquiry called for the total cost of all drainage works and services provided for the 10-year period, 1950–1959. The total was to include costs for all drainage activities of the organization, including construction or installation of new drainage works, enlargement or complete replacement of prior works, cleanout or restoration of old works, maintenance, operation, or repair of drainage works, and administration. The questionnaire required the inclusion of all costs relating to the works and services provided, regardless of when paid or to be paid. Specific mention was made of costs of organization, engineering, rights-of-way, legal services, and administration. Payments on principal or interest on bonds or notes were

not to be included. The enumeration instructions asked for the inclusion of all costs for physical works, materials, equipment, etc., regardless of the source of the funds used. Costs paid by a county, a State, or the United States Government, or by another drainage organization for use of facilities provided by the reporting organization were to be included.

New drainage works constructed, enlarged, or installed.—New drainage works referred to the digging or placement of drains where none existed before; the straightening, enlarging, widening, deepening, or relocation of natural channels or of prior ditches: or the installation or replacement of drainage pumps. The original construction of levees or dikes for the protection of lands provided with drainage, or their extension or enlargement, was, likewise, considered as new drainage construction. Maintenance, cleanout, or restoration of prior works, with no enlargement or change in the original works, were not considered new drainage construction.

The enumerators experienced some difficulty in determining when work on old drains was to be considered as new works.

For each of the three principal types of drainage works—open ditches, tile or corered drains, and levees or dikes—information was obtained as to the length of new construction; and for pumps, the number of newly installed pumps. New works represented by other structures such as drainage wells, sumps, flood or tide gates, bridges, enlyerts, wellhouses, and land leveling were to be reported under "other." No information was obtained for these "other" new drainage works except their type. The data presented include only a count of the projects reporting "other" new works.

Costs of new works.—This part of the overall cost for drainage was obtained in a separate question by asking how much of the total cost of works and services represented the cost of new drainage works reported.

Cost of maintenance, operation, repair, and administration.— This was obtained by subtracting the costs of new works from the total costs reported for all drainage works and services.

Drainage projects by size.—Drainage projects were classified on the hasis of the total acres of agricultural land receiving drainage benefits from works of the project. In the classification by size of project, the portion in two or more projects was included in each project. For intercounty projects, the determination of size was based on the total acres in the project, not on each county portion.

For a project comprising all drains under the jurisdiction of a given county, the area represented the combined total of the individual areas of drained land in the county that were administered by county officials, including portions of intercounty drains administered by other counties. Although projects with fewer than 500 total acres were excluded from the 1960 Census, the crediting of each portion of a county drain to the county in which located resulted in reports for county drains for two counties in 1960 showing less than 500 acres of drained agricultural lands. These two counties were Benton, Iowa, and Jerauld, South Dakota. In 1950, there were three such "county-drain" reports, the two counties mentioned above and Fulton, Kentucky.

For Delaware, all drainage projects for which there was no active organization at the time of the census were grouped into a single report for each county. This arbitrary procedure affected the data presented by size of project.

Drainage projects by type of organization.—Drainage projects were classed by type of organization into three groups:

- Drains owned by one landowner—A landowner may be an individual, a partnership, an estate, a private corporation, or an institution.
- Cooperative or mutual drains represent undertakings by two or more landowners cooperating without special organization under State drainage laws for the construction or operation of drainage works benefiting their lands. Many of the

cooperative or group drainage projects were undertaken under the guidance of the Soil Conservation Service.

3. Legally organized public drains represent community or public drainage undertakings accomplished through some form of governmental organization. These could be an organization administered by public officials of a county, a township, a State, an agency of the Federal government, or by specially elected or appointed officials or boards. A large variety of general or special State laws provide for equitable cooperation among landowners who will be benefited by a drainage undertaking. (A synopsis of drainage laws in the various States was included in the 1940 Census of Drainage report.)

Although legally organized drainage projects represent a large variety of types, most fall into two major groups. (1) County drains are governed by county officials or by a special official or board elected or appointed to administer public drainage undertakings in the county. In the 1960 Census all county drains in a county were treated as though they represented one project. (See "Drainage project," "Intercounty projects," and "County-drain" States.) (2) Drainage districts are governed by a special official or board elected or appointed for that particular project. (See "Drainage-district" States.)

Drainage projects by year started or organized.—The classification of projects by the year in which they were started or organized provides an indication of relative drainage activity in different periods of time. The drainage activity may not necessarily have represented construction of new works or the establishment of drainage on lands not previously benefited. Frequently the purpose of a new drainage project or organization was the restoration or improvement of existing drainage facilities, their extension, or the construction of supplemental works.

The classification of a project by year the project was started or organized should not be confused with the classification of the land by the year in which drainage was established. (See "Land by year drainage was established.") A project started or organized prior to 1950 may include some lands for which drainage was first established since 1950 while a project started or organized since 1950 may include lands on which drainage had been established by a prior project. State Table 4 and Summary Table 4 provide data on land by the year drainage was established for projects started or organized before 1950, and those started or organized in the period 1950–1959, respectively.

COMPARABILITY OF DATA

Continuity maintained despite changes.—The scope and content of the Census of Drainage has varied considerably since the first Census of Drainage in 1920. Notwithstanding the variation, a reasonable degree of continuity has been maintained in the data collected and tabulated. In 1920, 1930, and 1940, emphasis was placed on the status of drainage facilities as of the census date while in 1950 and 1960, emphasis was placed on the drainage activities for the most recent 10-year period.

Changes in enumerative procedures .- The Census of Drainage has always been primarily a census of community or public drainage undertakings and of the larger private drainage undertakings. Variations in the methods employed and the scope of the census have had the most effect on the number of projects covered but have not greatly affected the comparability of other items. The major changes have been (1) the elimination, in the enumeration, of numerous projects which had been taken over by a later project: (2) the exclusion of projects of under 500 acres which, because of their small size and tendency to represent overlapped projects, had contributed very little to the overall drainage area; (3) the consolidation into a single report of undertakings under common management; (4) the elimination of drainage undertakings representing an integral part of irrigation with the drainage required solely because of the irrigation of the land; and (5) the identification of extensive contiguous areas, within drainage projects, that were not used for agriculture or not drained. It will be noted that the changes listed under (1) and (3) had no effect on

the net area or drainage facilities covered in the census; the change under (2) reduced greatly the number of reports without any substantial reduction in the area or drainage facilities covered; the effect of the change stated under (4) was restricted to irrigated areas for which there was no need for drainage prior to irrigation; and the effect of the change listed under (5) was to provide more accurate data for lands which had been improved for agriculture by drainage.

Elimination of superseded projects.—In the first three censuses an attempt was made to obtain reports for all public drainage organizations, regardless of size, which had contributed to the investment and to the physical works represented in public drainage undertakings in existence at the time of the census. Reports were required for some organizations which had been wholly superseded by later projects. Quite commonly, a drainage organization had been established to provide a particular service and was dissolved or discontinued upon completion of the specified undertaking. When additional work was required, a new organization was created. In some counties the same land had been covered several times. For example, in 1940 in Ohio the total of areas of individual projects was more than 3 times larger than the total land area represented by all drainage projects in the State. (See Summary Table 8.) In the 1940 Census of Drainage Report, a distinction was made between "number of reports" and "number of enterprises," the latter intended to represent projects that had not been superseded by later organizations. For all drainage States reported in that census, the number of reports totaled 79,220, of which nearly half represented projects that had been superseded by later projects. Only 42,363 of these reports, or 53.5 percent, represented projects that had not been superseded.

The change in 1950, requiring the reporting of drainage activities for the most recent 10-year period, in lieu of an inventory of all physical works and the total capital investment represented by these works, made possible the elimination of reports which had contributed to the drainage works and to capital investment, but which no longer provided any drainage services. The effect of this elimination, in respect to number of reports, is shown by a comparison of number of projects, 1940, and number of reports. 1940. (See Summary Table 6.)

Elimination of projects under 500 acres.—A large proportion of the reports obtained in the first three censuses of drainage represented very small public drainage undertakings whose combined contributions to the overall totals were negligible. In 1940, more than half of the reports were under 500 acres but these small reports contributed only 5 percent to the net land area represented by all drainage projects. The decision to exclude public drainage projects of under 500 acres in the 1950 Census enumeration did not appreciably reduce the census coverage of drainage facilities but did eliminate the necessity of obtaining large numbers of reports that would contribute little significance to the statistics collected. Privately owned drainage projects of under 500 acres have been excluded from all five Censuses of Drainage.

A comparison of the total number of reports in 1940 and the number in 1940 excluding those representing fewer than 500 acres, is presented in Summary Table 6. Summary Table 11 provides a comparison of the totals of the acres in individual projects for all reports obtained in 1940 and for those under 500 acres. In making a comparison of the total areas, it should be kept in mind that nearly one-half of the totals of the acres of individual projects of under 500 acres represented land overlapped in other projects.

In 1950, although projects of less than 500 acres were eliminated from the enumeration, the data include 8,286 reports and 604,757 acres representing reports of under 500 acres of drained irrigated land reported in the Census of Irrigation.

One report for all drainage undertakings under same management.—More than four-fifths of all reports obtained in each of the first three censuses of drainage were from three States—Obio,

Indiana, and Michigan. In each of these States, most of the drains were administered by county officials.

The decision in the 1950 Census to use one questionnaire to cover all drainage activities in each county in these and 7 other States greatly simplified the enumeration. (See "History of the Census of Drainage" and "County-drain" States.) It was no longer necessary to plot the land for every successive drainage activity. If records in the county provided totals for all drainage activities, it was not necessary to search out the data for each individual undertaking.

In these three States the number of reports obtained in the enumeration was reduced from 64,881 in 1940 to 196 in 1950. (See Summary Table 6.) A disadvantage of the procedure followed in 1950 was its failure to provide separate information for projects that were not under county management. These projects had been arbitrarily included in 1950 in the one report obtained for each county.

In 1960, the procedure was modified to obtain separate information for each project having its own separate organization but required, in all States, one report for all drainage undertakings under the same management. (For further discussion of the effects on the statistics of this enumeration procedure see "County-drain" States.)

Elimination of irrigation drainage.—In taking the earlier censuses of drainage, considerable difficulty had been experienced in obtaining satisfactory data for irrigation projects having their own drainage. In 1950, the reporting on the drainage questionnaire was so incomplete that it was decided to use the more limited data secured in the Census of Irrigation for that year. The drainage data available from the irrigation census were limited to the area of irrigated lands provided with artificial drainage and the number of projects reporting drainage. Some downward adjustments were made in these irrigation census data to eliminate drainage activities of separately organized drainage districts. Adjustments were limited to Florida, Louisiana, and Texas. The replies received in the 1960 mail canvass for irrigation enterprises indicated that there had been additional duplication which had not been eliminated. The exact location of the drained land reported in the 1950 Census of Irrigation had not been required. Consequently, no satisfactory check for duplications in the drained areas reported in the 1950 Census of Irrigation and those reported in the Census of Drainage was possible.

The decision, in 1960, to eliminate coverage of drainage required solely because of irrigation resulted in the exclusion, in that year, of most of the 9,076 reports and much of the 4,119,059 acres of drained lands reported in the 1950 Census of Irrigation and included in the 1950 drained land totals. Of these totals from the Irrigation Census, 8,286 reports, with 604,757 acres, were eliminated because of the 500-acre limitation. In addition to drainage performed by irrigation enterprises, the 1950 Census of Drainage included 267 drainage enterprises, organized separately, for which the drainage was principally for the purpose of removal of alkali or seepage from irrigated land. These 267 enterprises accounted for 1,270,729 drained acres in the 1950 total. The 1960 reports for most of these projects again indicated that the drainage was required solely because of irrigation and, therefore, were excluded from the tabulations.

Identification of nonagricultural and nondrained lands.—In the 1950 Census of Drainage Report, the total land in drainage projects for 40 small geographic areas—22 parishes in Louisiana; 4 counties each in Florida and Michigan; 3 counties each in Minnesota, Ohio, and Texas; and 1 in Arkansas—exceeded the total land in farms by 20 percent or more. The excess for these 40 small geographic areas amounted to 10,150,825 acres, or 9.9 percent of the total land in drainage projects reported for all drainage States.

In 1960, the determination of extensive nonagricultural and nondrained tracts within all drainage projects resulted in the identification of 9,573,393 acres, or 9.4 percent of the land in drainage projects, as not being used for agriculture or not benefited by the drainage works provided. The inquiry, which allowed for the determination of such land, permitted the identification and exclusion of former drainage district lands which now represent special use areas, such as State forests, wildlife refuges. recreation areas, etc. Similarly, it aided in identifying lands which had been withdrawn from an existing district for one or more of these special uses. Also excluded from the total area were large areas of swamp or waste lands and other nonbenefited areas in so-called countywide drainage districts. In 1960 the enumeration procedure called for the inclusion of only the portion taxed, if special levies were made against landowners directly benefited, or the portion actually improved if the entire county was taxed. In 1950, the entire area of the county was included.

Differences in reporting overlapped areas.—The consolidation into a single report of two or more undertakings under common management did not allow for the reporting of areas provided with supplemental services.

The land area in drainage projects, counting only once land in two or more projects, was accomplished in 1920 and 1930 by determining for each project the area not represented in an earlier project, whereas, in 1940 and 1950, this was accomplished by determining the area not in a later project. In 1960, the determination was made through the use of a worksheet which provided for counting only once each piece of land represented in the plotting of the projects on the county map.

In Summary Table 8, which presents data on areas served by two or more projects, the 1960 area is that which was provided drainage services by two or more projects. The 1950 totals for overlapped areas were obtained by subtracting from the sum of the acres of individual projects the net land area represented by all projects. The 1940, 1930, and 1920 totals for overlapped areas were, likewise, obtained by difference and were further affected by the inclusion of projects which had been superseded by later projects. (See "Elimination of superseded projects.")

In Summary Tables 12 and 13, land in two or more projects was included in 1960 for each project, thus representing multiple counting of such lands. For 1950 and 1940, only land not taken over by a later project was included. For 1930 and 1920, only land not represented in an earlier project was counted. In Summary Table 13, the area presented by year the project was started or organized represents, for 1950 and 1940, the area by year of beginning of the most recent drainage undertaking, while the 1930 and 1920 data represent more nearly the year drainage was first established for the area.

"County-drain" States.—The grouping of States, similarly affected by changes in procedure, permits a better comparison of bistorical data. The group of States most affected by changes in procedure were the 10 States designated in the 1950 report as "county-drain" States.

The simplification of the 1950 questionnaire and the use of only one report in 1950 for each county, for these 10 States, resulted in the omission of inquiries on pump drainage, year and type of organization, and overlapping of drainage projects. In presenting drainage data in 1950, for these States, no count was shown for number of projects and no classification was shown for type of project, year of organization, or size of project. In this report, the count shown for 1950 is the number of counties for which a report was included. In the 1960 presentation, each of the 1950 county reports was considered as presenting a legally organized drainage project and was classified by size on the basis of the total acres reported for the county. The possible inclusion in the county report of undertakings of individual landowners or of cooperating groups of landowners without formal organization under State laws was disregarded.

In 1960, the determination of the year started or organized for a combined report represented the year the management was established, or the year the first drain was started if the management preceded the drainage activities. The determination of the land for which drainage had been established since 1950, however, provided a measure of new undertakings for organizations established before 1950.

Except for Delaware, the predominant type of drainage organization in the so-called "county-drain" States was the county drain. For most counties in these States, the 1960 procedure provided data very comparable to those in 1950. The change in procedure affected only counties having drainage organizations not classed as county drains. For Delaware, since the predominant type of drainage organization was the drainage district, under the 1960 procedure each district required a separate report. The combined report used in 1950 was retained in 1960, for Delaware, only for districts for which there was no organization in 1960. (See "Drainage projects by size.")

"Drainage-district" States.—This designation was used for all drainage States other than "county-drain" States. For these States, the predominant type was the drainage district and the 1960 and 1950 procedures more nearly paralleled those used in 1940. The most pronounced difference was in the reporting of irrigation drainage.

"Irrigation" States.—This designation is used for that group of "drainage-district" States for which the 1950 data included drained lands reported in the Irrigation Census. The effect on the data, of the exclusion in 1960 of drainage undertakings which had been required solely because of irrigation, was limited to these States and a few counties in the "county-drain" States.

"Other" States refer to those "drainage-district" States not affected by the method of handling irrigation drainage. These States were least affected by changes in procedures.

SUMMARY OF DRAINAGE ACTIVITIES

The total area in drainage projects serving agricultural lands, as determined in the 1960 Census, was 101,870,257 acres. This area, benefited by drainage projects of 500 or more acres, is less than the 102,688,331 acres reported in 1950 but actually represents an increase for comparable categories of land. The 1960 data did not include approximately 3 million acres of drained irrigated lands and about 6 million acres of swamp and waste lands counted in 1950 but excluded under the 1960 procedures.

Of the 1960 total area of 101,870,257 acres within drainage project boundaries, 9,573,393 acres represented extensive areas either not being used for agriculture or not benefited by drainage works established by the projects. The remaining 92,296,864 acres, after the exclusion of extensive nonagricultural and non-drained lands, represented the area predominantly agricultural which had been benefited by installed drainage works. However, this total contained an unknown amount of interspersed non-agricultural land. Drainage was reported, as newly established since 1950, on 5,336,593 acres. This newly established drainage area represented both improvement of lands already in agriculture and the reclamation of new lands for agriculture. One-third of these newly drained lands represented additions to drainage projects in existence in 1950 and two-thirds, lands for which drainage works were established by projects started since 1950.

Projects initiated since 1950 also included new works or services for 2,637,792 acres on which drainage had been previously established. A large proportion of these newly established projects were undertakings of groups of farmowners cooperating without legal organization or undertakings of individual farmowners. The acreage of benefited lands of individual landowners and cooperative groups was approximately 2¾ times that reported in 1950.

In 1960, projects started prior to 1950 accounted for 93.6 percent of the total agricultural lands reported as provided with drainage.

Three-fifths of these older projects reported drainage activity in the period 1950 to 1959, with one-fifth reporting construction of new drainage works. Approximately one-fifth of those providing new works since 1950 had extended their facilities to lands not previously drained. Two-fifths of the projects started before 1950 reported no maintenance or other drainage services provided since 1950. Maintenance work on public drains by individual landowners would not have been included in the reports for public drains.

The total cost of drainage works and services for the 10-year period amounted to \$416.875.865, of which \$185.688.673 was for new works. New facilities represented, principally, construction of 33,543 miles of open ditches: 2.192 miles of tile or covered drains; 2,017 miles of levees; and the installation of 957 pumps. Costs for maintenance and operation of established drains, exclusive of any maintenance for public drains by individual landowners, amounted to \$2.50 per acre drained, or 25 cents per acre per year.

The greatest portion of the agricultural land in drainage projects is located in the North Central States and lower Mississippi Valley. The States with the largest drained acreage in 1960 were Indiana with 11,053,446 acres, Minnesota with 10,560,808 acres, Michigan with 9,877,049 acres, Ohio with 8,809,415 acres, and Louisiana with 7,110,624 acres. These five States accounted for more than one-balf of the total drained agricultural land. These

States were followed in order by Iowa with 6,871,339 acres, Texas with 5,691,130 acres, Illinois with 5,563,426 acres, and Florida with 4,855,327 acres.

Three States accounted for more than one-half of the land on which drainage had been newly established since January 1, 1950. These three States were Minnesota with 1,244,237 acres on which drainage had been newly established, Louisiana with 965,687 acres, and Florida with 548,956 acres. Other leading States were Texas with 318,198 acres, North Carolina with 254,482 acres, Mississippi with 249,368 acres, California with 244,352 acres, and Arkansas with 233,263 acres. These eight States accounted for more than three-fourths of the total land on which drainage had been established since January 1, 1950.

Florida led all States in the amount spent for agricultural drainage for the 10-year period, 1950 to 1959, with a total cost of \$91,627,636 for all drainage works and services. Of this total, \$68,012,516 represented an outlay for new construction. Florida accounted for more than one-fifth of the total reported by all States for drainage works and services and more than one-third of the total cost of new works. Louisiana reported a total expenditure of \$45,796,344, and Minnesota, \$41,809,993, with more than one-half of each total representing new works. Michigan followed with a total cost of \$37,186,074, of which \$32,402,708 was for maintenance, the largest amount of maintenance reported for any State.



SUMMARY

(1)

See inserted folded map

Summary Table 1.-DRAINAGE PROJECTS-NUMBER, AREA, COST, AND WORKS: CENSUSES OF 1920 TO 1960

	1960	1950	1940	1930 Census	1920
Item	Census (39 States)	Census (40 States)	Census (38 States)	(35 States)	Census (34 States)
AREA					
Approximate land areaacres Land in farmsacres	1,744,413,440	1,819,123,840	1,785,136,000	1,743,699,840	1,717,932,160
Drainage projectsnumber	8,461	1,123,690,602 114,533	1,004,930,884	905,805,407 167,927	844,904,236 1 _{56,949}
Total area in drainage projects	101,870,257	102,688,331 NA	86,967,039 NA	84,408,093 NA	65,495,038 NA
Net area drained and used for agricultureacres served	92,296,864	NA	² 70,068,469	² 68,640,109	NA
Drainage established 10 years or more before Census dateacres served	86,960,271	NA NA	NA NA	NA.	1JA
Drainage established within 10 years of Census dateacres served Area served by two or more projectsacres served	5,336,593 6,276,437	NA 3,962,516	NA 45,861,412	NA 44,086,985	NA 30,134,253
Total of areas of individual projects ³ acres served	99,098,430	106,650,847	132,828,451	128,495,078	95,629,291
PROJECTS BY SIZE					
Under 500 acres	***	8,289 606,031	41,690 9,065,810	31,056 7,348,844	22,205 6,374,640
500 to 999 acresnumber of projects	2,847	1,593	15.855	15,765	10,712
1,000 to 4,999 acresnumber of projects	1,950,621 3,669	1,103,139 2,757	11,234,727 17,213	11,130,096	9,091,516 11,757
acres served	7,764,699	6,201,930	35,069,097	34,074,009	29,522,536
1,000 to 1,999 acresnumber of projects acres served	2,081 2,881,301	1,412 1,983,206	10,467 14,558,019		
2,000 to 4,999 acres	1,588	1,345	6,746		
5,000 to 9,999 acresnumber of projects	4,883,398 728	4,218,724 679	20,511,078	2,291	1,472
acres served	5,081,845	4,754,671	16,387,515	15,865,002	13,357,936
10,000 to 49,999 acres	16,758,378	17,098,296	1,884 36,721,074	1,814 35,075,951	1,107 23,826,149
10,000 to 19,999 acresnumber of projects	499 6,963,107	484 6,781,099	1,228		
20,000 to 49,999 acresnumber of projects	320	334	16,964,180		
acres served	9,795,271	10,317,197	19,756,894	168	115
50,000 to 99,999 acresnumber of projects acres served	10,630,513	10,254,850	10,760,472	11,403,982	8,605,536
100.000 or more acresnumber of projects	246 56,912,374	252 66,631,930	13,589,756	13,597,194	31 4,850,978
PROJECTS BY TYPE OF ORGANIZATION					,,,,,,
Drains owned by one landowner	1,817	4551	NA.	NA	NA
scres served5	4,162,544	41,382,830 893	6985,046	6854,880	6642,018
Cooperative or mutual drains	2,469 3,577,204	41,409,494	(7)	(7)	(7)
Legally organized public drainsnumber of projects	4,175	44.013	681,705,415	NA NA	NÁ
acres served ⁵	91,358,682	495,776,948	*81,700,410	680,894,347	664,352,059
PROJECTS BY YEAR STARTED					
Started 10 years or more before Census datenumber of projects acres served ⁵	5,958 92,839,578	83,749 832,193,879	81,000,792	73,691,488	NA 936,545,774
Started within 10 years of Census datenumber of projects	2,503	81,263	NA.	NA.	NA.
acres served ⁵	6,258,852	814,351,738	5,966,247	10,716,605	928,719,717
DRAINAGE OPERATIONS, 10-YEAR PERIOD PRECEDING CENSUS DATE					
Cost of drainage works and servicesprojects reporting dollars	6,137 416,875,865	43,810	NA NA	NA NA	NA NA
New drainage works constructed, enlarged, or installedprojects reporting	3,606	179,033,770 101,128	NA	NA.	N.A.
Open ditchesprojects reporting	185,688,673 3,333	1023,872,422	NA NA	NA NA	NA NA
length, miles	33,543.5	9,301	NA.	NA NA	NA.
Tile or covered drainsprojects reporting length, miles	2,192.1	146 581	NA :	NA NA	NA NA
Levees or dikesprojects reporting	322	152	NA.	NA	NA.
length, miles Pumpsprojects reporting	2,016.9	1,020 NA	NA NA	NA NA	NA NA
number of pumps	957	NA.	NA NA	NA NA	NA NA
Other (see text)projects reporting	264	NA	NA.	NA.	NA
Cost of maintenance, operation, repair, and administrationprojects reporting	4,042	NA NA	NA.	NA.	N.A
repair, and administrationprojects reporting dollars	231,187,192	155,161,348	NA NA	NA	NA
STATUS ON CENSUS DATE					
Capital investmentdollars	NA NA	NA	691,724,519	680,250,255	372,273,567
Physical works: Open ditcheslength, miles	NA NA	NA.	146,152.3	138,673.0	107,468.2
Tile drainslength, miles	NA NA	NA.	55.734.0	55,031.9	42,311.7
Levees and dikeelength, miles Pumping unitsprojects reporting	NA NA	8 369	6,792.9 353	6,539.5 292	3,509.8 210
number of units	NA NA	81,146	1,284	1,028	453

NA Not available.

enterprises" and 14,192 acres not identified by type; for 12.21, lights exclude "Ne,222 acres to account the text.

In 1940, 1930, and 1920, the classification by type of organization included drainage undertakings by two or more operators cooperating without organization under statute law with "individual nonerwhip enterprises." One cooperative project of 10,000 acres in Georgia was identified in the text of the 1920 report. See Summary Table 12 and text.

*For 30 States only, exclusive of 9,064 projects and 4,109,573 acres in "irrigation enterprises"; year began and pumping units not reported for the 10 "county-drain" States.

See Summary Table 13 and text.

*Revised to equal sum of figures about in 1920 by States; 1920 figures exclude 229,547 acres for which date of organization was not reported. See Summary Table 13.

10 Cost of new works for lands not previously drained.

NA Not available.

For 1950, the number includes irrigation enterprises reporting drained land in the Census of Irrigation; for the 10 "county-drain" States, all drainage projects in each county were enumerated as a unit. In 1940 and earlier, each drain was counted a separate project. For 1950 and 1920, the count represents the number of reports and includes projects wholly Superseded by later projects and, for intercounty projects, the separate reports for each county. See Summary Table 6 and text. See Summary Table 11 for explanation of cours by size of projects.

Project of series of individual projects with no deduction for land included in more than one project; for 1960, extensive contiguous areas not used for agriculture or not drained (line 5) were excluded. See Summary Table 7 and text.

**For 1960, figures exclude 9,076 projects and 4,119,059 acres in "irrigation enterprises"; for the 10 "county-drain" States, all drainage projects in each county (other than "irrigation enterprises" from Census of Irrigation Were included with county drains. See text.

**For 1960, sum of areas of Individual projects (see footnote 3); for 1920 to 1990, land in two or more projects included only once; for 1950 and 1940, land in two or more projects included only once; for 1950 and 1940, and in two or more projects included only once; for 1950 and 1940, and in two or more projects included only once; for 1950 and 1940, and in two or more projects included only once; for 1950 and 1940, and in two or more projects included only once; for 1950 and 1940, of the project for torganized.

*For 1940, figures exclude 4, 240,578 acres in "irrigation enterprises" and 36,000 acres not identified by type; for 1930, figures exclude 2,644,674 acres in "irrigation enterprises" and 38,126 acres not identified by type; for 1920, figures exclude 42,045,767 acres in "irrigation enterprises" and 38,126 acres not identified by type; for 1920, figures exclude 42,0579 acres in "irrigation enterprises" and 38,126 acres not identified by type; fo

Summary Table 2.-DRAINAGE PROJECTS,

Data for

			ed and used lture, 1960	Area	by period drains	ge was establishe	1
Size of project (Baged on area of agricultural land in project)	Number of projects	Total 1	Served by two	Befor	e 1950	Area added 1	950-1959
		(acres)	or more projects ¹ (acres)	Projects reporting	Acres 1	Projects reporting	Acres 1
All projects	8,461	99,098,430	13,078,003	7,190	93,616,607	1,791	5,481,8
500 to 999 scres	2,847	1,950,621	723,167	2,140	1,449,315	823	501,3
1,000 to 1,999 acres	2,081	2,881,301	823 257	1,744	2,386,675	440	494,6
2,000 to 4,999 scres	1,588	4,883,398	1,010,151	1,431	4,308,074	238	575,3
5,000 to 9,999 acres	728	5,081,845	785,772	682	4,589,121	91	492,7
10,000 to 19,999 scres	499	6,963,107	1,171,097	484	6,608,196	45	354,9
20,000 to 49,999 acres	320	9,795,271	1,719,709	314	9,344,850	23	450,4
50,000 to 99,999 acres	152	10,630,513	1,612,601	150	9,796,395	33	834,
100,000 or more acres	246	56,912,374	5,232,249	245	55,133,981	98	1,778,

Areas served by two or more projects included in each project.

Summary Table 3.-DRAINAGE PROJECTS, BY

Data for

		Ares drained for agricul		Area by period drainage was established					
Type of organization	Number of projects	Tctal ¹	Served by two	Before	1950	Area added	1950-1959		
	projects	facres'	or more projects1 (acres)	Projects reporting	Acres ¹	Projects reporting	Acresi		
All projects.	8,461	99,098,430	13,078,003	7,190	93,616,607	1,791	5,481,823		
Drains owned by one landowner	1,817	4,162,544	1,794,051	1,360	3,286,656	569	875,888		
Cooperative or mutual drains	2,469	3,577,204	1,244,573	1,768	2,338,334	895	1,238,870		
Legally organized public drains	4, 175	91,358,682	10,039,379	4,062	87,991,617	327	3,367,06		
			l l						

Areas served by two or more projects included in each project.

Summary Table 4.-DRAINAGE PROJECTS, BY

Data for

		Area draine for agricul		Ares	a by period drains	age was establishe	d	
Year of organization	Number of		Served by two	Before	e 1950	Area added 1950-1959		
	projects	Total ¹ (acres)	or more projects ¹ (acres)	Projects reporting	Acres ¹	Projects reporting	Acres ¹	
All projects.	8,461	99,098,430	13,078,003	7,190	93,616,607	1,791	5,481,82	
1950-1959	2,503	6,258,852	2,149,374	1,232	2,637,792	1,521	3,621,06	
Pnor to 1950	5,958	92,839,578	10,928,629	5,958	90,978,815	270	1,860,76	

 $^{^{1}\}mathrm{Areas}$ served by two or more projects included in each project.

BY SIZE: CENSUS OF 1960

39 States]

			0-1959	nstalled, 195	nlarged, or i	constructed, e	New works			1950-1959	and services,	rainage works	Cost of d
	other,	pe	Pum	nd dikes	Levees 3	ered drains	Tile or cov	tches	Open d	works	For new	tal	To
	projects reportin	Number	lrojects reporting	Length (miles)	Frojects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting
264	2	957	357	2,016.9	322	2,192.1	427	33,543.5	3,333	185,688,673	3,606	416,875,865	6,137
72		169	90	250.5	90	426.6	145	5,255.6	1,493	8,180,769	1,573	13,104,350	2,044
68		162	86	258.8	75	198.8	92	5,263.0	824	8,4%,226	887	16,647,121	1,421
55	1	229	89	484.7	82	132.8	48	4,378.7	466	14,452,400	519	32,430,117	1,123
22	ĺ	77	35	174.3	30	30.2	17	2,022.3	171	8,724,035	197	28,697,412	527
21		200	30	239.0	25	15.3	11	2,267.9	106	11,002,856	129	34,240,516	384
6		33	9	113.0	10	23.3	14	2,831.9	70	8,399,809	78	31,434,415	256
9		55	11	76.7	6	199.2	15	3,904.0	58	16,303,136	64	41,950,143	139
1.1	1	32	7	419.9	4	1,165.9	85	7,620.1	145	110,129,442	159	218,371,791	243

TYPE OF ORGANIZATION: CENSUS OF 1960

39 States

Cost of d	rainage works	and services,	1950-1959			Hew works	constructed, e	enlarged, or	installed, 19	50-1959			
To	tal	For new	vorks	Open d	itches	Tile or cove	ered drains	Levees	nd dikes	Fump	s	Other,	
Projects reporting	Dollars	Frojects reporting	Dollars	Frojects reporting	Length (mile:)	Frojects reporting	Length (miles)	Projects reporting	Length (miles)	Frojects reporting	Number	projects reporting	
6,137	416,875,865	3,606	185,688,673	3,333	33,543.5	427	2,192.1	322	2,016.9	357	957	264	1
1,635	39,803,405	1,366	21,315,822	1,332	17,517.1	65	355.9	200	1,102.7	212	667	63	2
1,736	11,694,288	1,426	8,872,991	1,355	3,552.4	159	296.4	32	77.2	24	34	88	3
2,766	365,378,172	814	155,499,860	646	12,474.0	203	1,539.8	90	837.0	121	256	113	4

YEAR OF ORGANIZATION: CENSUS OF 1960

39 States]

rainage works	and services,	1950-1959	New works constructed, enlarged, or installed, 1950-1959							50-1959			
tal	For ne	w works	Open di	itches	Tile or cove	ered drains	Levees a	evees and dikes		epa	ther,		
Dollars	Frojects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Frojects reporting	Length (miles)	Projects reporting	Number	projects reporting		
416,875,865	3,606	185,688,673	3,333	33,543.5	427	2,192.1	322	2,016.9	357	957	264		
53,884,348	2,348	44,197,206	2,273	15,466.3	207	538.1	147	654.5	108	266	133	l	
362,991,517	1,258	141,491,467	1,060	18,077.2	220	1,654.0	175	1,362.4	249	691	131		
	Dollars 416,875,865 53,884,348	tal For ner Dollars Frojects reporting 416,875,865 3,606 53,884,348 2,348	Dollars Frojects Pollars 416,875,865 3,606 185,688,673 53,884,348 2,348 44,197,206	tal For new works Open d: Dollars Frojects reporting Dollars Frojects reporting 416,875,865 3,606 185,688,673 3,333 53,884,348 2,348 44,197,206 2,273	tal For new works Open ditches Dollars Frojects reporting Dollars Projects (miles) 416,875,865 3,606 185,688,673 3,333 33,543,5 53,884,348 2,348 44,197,206 2,273 15,466.3	tal For new works Open ditches Tile or cov Dollars Frojects reporting Dollars Projects Length (miles) Projects reporting 416,875,865 3,606 185,688,673 3,333 32,543.5 427 53,884,348 2,348 44,197,206 2,273 15,466.3 207	tal For new works Open ditches Tile or covered drains Dollars Frojects reporting Dollars Projects Length (miles) 416,875,865 3,606 185,688,673 3,333 33,543.5 427 2,192.1 53,884,348 2,348 44,197,206 2,273 15,466.3 207 538.1	tal For new works Open ditches Tile or covered drains Levees a Dollars Frojects reporting Dollars Projects (miles) Projects reporting Length (miles) Frojects 416,875,865 3,606 185,688,673 3,333 33,543,5 427 2,192.1 322 53,884,348 2,348 44,197,206 2,273 15,466.3 207 538.1 147	tal For new works Open ditches Tile or covered drains Levees and dikes Dollars Frojects reporting Dollars Projects reporting Length rep	tal For new works Open ditches Tile or covered drains Levees and dikes Pur Dollars Frojects reporting Dollars Projects (miles) Frojects (whiles) Frojects (mil	tal For new works Open ditches Tile or covered drains Levees and dikes Pumps Dollars Frojects reporting Dollars Projects Length reporting (miles) Frojects (miles) Frojects reporting (miles) Frojects (miles) Frojects reporting (miles) Frojects (miles) Frojects Frojects (miles) Frojects (miles) Frojects (miles) Frojects Frojects (miles) Frojects (miles) Frojects (miles) Frojects Frojects (miles)	tal For new works Open ditches Tile or covered drains Leves and dikes Fumpo ther, Dollars Frojects reporting Dollars Projects length reporting (miles) Frojects reporting (miles) Frojects reporting (alles) 2,016.9 397 957 264 416,875,865 3,606 185,688,673 3,333 33,543.5 427 2,192.1 322 2,016.9 397 957 264 53,884,348 2,348 44,197,206 2,273 15,466.3 207 538.1 147 654.5 108 266 133	

Summary Table 5.-DRAINAGE PROJECTS, AREA, SIZE,

	Item and Census year	Total (39 States)	Alabama	Arkansas	California	Colorado	Delaware	Florida	Georgia
	AREA								
1 2 3	Approximate land areaacres. Land in farmsacres. Drainage projectsnumber.	1,744,413,440 1,052,713,726 8,461	32,678,400 16,542,730 11	33,599,360 16,458,515 598	100,206,720 36,887,948 356	66,485,760 38,787,312 16	1,265,920 762,526 60	34,721,280 15,236,521 516	37,295,360 19,657,615 52
4	Total area in drainage projects1acres served Area not used for agriculture	101,870,257	69,901	4,870,106	1,934,825	55,496	356,702	9,222,517	94,728
6	or not drainedacres served Net area drained and used	9,573,393	4,000	189,140	23,574		15,780	4,367,190	1,500
7	for agricultureacres served Drainage established	92,296,864	65,901	4,680,966	1,911,251	55,496	340,922	4,855,327	93,228
8	before 1950acres served Area added, 1950-1959acres served Area served by two or	86,960,271 5,336,593	64,851 1,050	4,447,703 233,263	1,666,899 244,352	55,496	340,066 856	4,306,371 548,956	67,982 25,246
	more projectsacres served	6,276,437	• • • • • • • • • • • • • • • • • • • •	917,881	106,696		600	1,353,192	7,621
10	Total of areas of individual projectsacres served ²	99,098,430	65,901	5,765,338	2,019,547	55,496	341,522	6,348,491	101,854
11	PROJECTS, 1960, BY SIZE 500 to 999 acresnumber of projects	2,847	6	230	104		18	148	21
12 13 14	acres served 1,000 to 1,999 scresnumber of projects acres served	1,950,621 2,081 2,881,301	3,749	150,233 109 144,769	71,294 76 101,939	2,892 4 5,930	11,961 24 31,948	101,911 109 147,268	14,172 18 26,533
15	2,000 to 4,999 acresnumber of projects	1,588	3	76	75	4	14	107	10
16 17 18	5,000 to 9,999 acresnumber of projects acres served	4,883,398 728 5,081,845	11,271	238,843 60 439,295	230,410 56 381,682	11,464 4 35,210	51,448 1 6,346	340,809 66 473,168	28,613 1 9,846
19 20	10,000 to 19,999 acresnumber of projects acres served	499 6,963,107		54 776,548	27 385,170		11,700	38	2 22,690
21 22	20,000 to 49,999 acresnumber of projects acres served	9,795,271	2 50,881	1,388,425	234,240	:::	11,700	531,642 31 851,598	22,090
23 24	50,000 to 99,999 acresnumber of projects acres served	152 10,630,513		12 778,208	8 477,966			13 909,054	
25 26	100,000 or more acresnumber of projects acres served	246 56,912,374		12 1,849,017	136,846		228,119	2,993,041	:::
	PROJECTS, 1960, BY TYPE OF ORGANIZATION								
27 28	Drains owned by one landownernumber of projects acres served	1,817 4,162,544	500	167 236,104	157 311,903	2,638		388 1,836,408	12,847
29 30	Cooperative or mutual drainsnumber of projects acres served	2,469 3,577,204	6 33,745	202 276,463	45 124,511	3 5,610	1 780	36 274,43 1	17 24,325
31 32	Legally organized public drainsnumber of projects acres served	4,175 91,358,682	31,656	229 5,252,771	154 1,583,133	10 47,248	59 340,742	92 4,237,652	24 64,682
	PROJECTS, 1960, BY YEAR STARTED	2,503			87		10	197	
33 34	1950-1959number of projects acres served	6,258,852	500	338 773,954	267,081		10 22,822	828,437	34,533
35 36	Prior to 1950number of projects acres served	5,958 92,839,578	10 65,401	260 4,991,384	269 1,752,466	16 55,496	318,700	319 5,520,054	38 67,321
37	DRAINAGE OPERATIONS, 1950-1959 ³ Cost of drainage works and								
38	servicesprojects reporting dollars	6,137 416,875,865	31,061	471 20,488,226	344 29,065,257	15 178,196	48 476,944	450 91,627,636	118,012
39 40	New drainage works constructed, enlarged, or installedprojects reporting dollars	3,606 185,688,673	25,912	352 9,044,351	206 4,525,825	3 3,750	33 399,511	338 68,012,516	21 109,012
4 <u>1</u> 42	Open ditchesprojects reporting length, miles	3,333 33,543.5	15.3	347 1,796.0	167 812.9	0.3	33 215,7	327 10,554,6	21 52.4
43 44	Tile or covered drainsprojects reporting length, miles	427 2,192.1	***	:::	21 46.0	1 0.4		9 23 . 2	7.8
45 46	Levees or dikesprojects reporting length, miles	322 2,016.9	:::	9 27.8	50 227.4			119 1,198.1	
47 48 49	Pumpsprojects reporting number of pumps Other (see text)projects reporting	357 957 264	:::	3 4 •••	74 162 42	1 1 1		139 548 28	
50 51	Cost of maintenance, operation, repair, and administrationprojects reporting dollars	4,042 231,187,192	5 5,249	169 11,443,875	289 24,539,432	14 174,446	25 77,4 33	312 23,615,120	3 9,000

Land served by two or more projects counted only once.

2 Total of serves of individual projects with no deduction for land included in more than one project; extensive contiguous areas not used for agriculture or not drained (line 5) were excluded.

2 Includes projects taken over by another project prior to 1960. See text.

SUMMARY

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AND TYPE OF ORGANIZATION, 1960; AND DRAINAGE OPERATIONS, 1950 TO 1959; BY STATES

Idaho	Illinois	Indiana	I.M.	Kansas	Kentucky	Louisiana	Maryland	Michigan	Minnesota	Mississippi	Missouri	Γ
52,933,120 15,232,401 33	35,795,200 30,327,261 1,496	23,158,400 18,613,046 292	35,860,480 33,830,950 249	52,510,720 50,152,870 103	25,512,320 17,030,675 28	28,867,840 10,347,328 915	6,319,360 3,456,769 138	36,492,160 14,782,507 86	51,205,760 30,796,097 307	30,222,720 18,630,263 590	44,248,320 33,155,226 425	5 6
130,982	5,616,121	11,120,936	6,884,409	402,330	945,515	9,089,516	353,837	10,208,735	11,688,201	3,123,227	3,123,416	
20,000	52,695	67,490	13,070	29,220	56,716	1,978,892	3,390	331,686	1,127,393	82,620	26,100	:
110,982	5,563,426	11,053,446	6,871,339	373,110	888,799	7,110,624	350,447	9,877,049	10,560,808	3,040,607	3,097,316	
110,118	5,428,733 134,693	10,980,064 73,382	6,748,104 123,235	309,135 63,975	882,753 6,046	6,144,937 965,687	341,631 8,816	9,753,462 123,587	9,316,571 1,244,237	2,791,239 249,368	3,059,174 38,142	1
***	293,808	210,322	190,819	4,873	2,000	1,255,460	44,541	23,279	475,138	294,417	517,507	9
110,982	5,883,070	11,267,848	7,063,570	377,983	890,799	8,457,799	396,786	9,900,328	11,045,146	3,354,500	3,670,629	10
8,075 9 12,214	313 228,468 438 633,572	120 80,373 59 77,882	61 40,868 51 72,690	26 20,036 23 34,597	7 4,566 6 8,683	373 261,601 271 373,294	45 31,330 36 52,090	28 18,013 5 7,085	110 76,273 76 105,305	222 149,764 122 161,464	99 65,228 85 118,155	12
30,656 2 11,988	1,380,782 1,380,782 182 1,240,267	82,548 12 85,208	36 115,231 19 140,346	70,415 22 155,065	2,000 2 14,400	126 361,443 28 203,467	127,218 13 89,562	4,200 3 22,096	34 95,505 5 36,520	346,550 53 361,648	108 331,669 50 345,052	17
2 48,049	98 1,317,391 27 822,295	101,632 8 273,059	30 429,493 16 532,875	97,870	29,191 29,371	600,013 36 1,111,624	33,541	31,169 5 184,213	7 105,929 18 608,036	582,586 25 710,266	43 603,643 29 847,008	20
	151,034 1 109,261	479,819 51 10,087,327	932,852 23 4,799,215	:::	335,569 3 443,019	1,046,309 22 4,500,048	63,045	403,485 37 9,230,067	1,597,870 35 8,419,708	898,322 1 143,900	527,879 3 831,995	25
5 4,074	39 78,673	18 22,765	10 11,428	3,660	2,000	526 810,903		7,454	25 34,930	121 155,650	55 42,154	
3 4,362	154 228,762	188 237,047	89 12 5, 657	23,427	10 8,660	235 309,784	14,183	21 22,724	192 248,293	230 292,531	56 57,739	29 30
25 102,546	1,303 5,575,635	11,008,036	150 6,926,485	84 350,896	17 880,139	154 7,337,112	129 382,603	54 9,870,150	90 10,761,923	239 2,906,319	314 3,570,736	31 32
1 704	101 227,957	154 197,004	64 75,368	27 68,772	8 6,646	307 1,521,116	22 36,354	22 16,365	160 370,380	197 435,318	111 167,964	33 34
32 110,278	1,395 5,655,113	138 11,070,844	185 6,988,202	76 309,211	884,153	608 6,936,683	116 360,432	9,883,963	147 10,674,766	393 2,919,182	314 3,502,665	35 36
29 2,011,573	1,027 28,691,965	254 13,598,832	202 21,032,299	96 1,665,416	17 897,753	753 45,796,344	29 409,398	79 37 ,1 86,074	248 41,809,993	374 9,557,061	302 12,138,381	37 38
200,332	228 11,114,587	158 2,528,431	110 5,726,914	45 850,795	10 97,291	576 24,432,591	23 393,798	67 4,783,366	207 23,831, 3 72	223 3,855,591	117 936,412	39 40
11 38.6	143 374.5	135 487.0	78 271.1	44 168.0	10 28.4	562 8,202.7	23 137.2	64 974.6	205 2,333.2	222 566.6	113 296.7	41 42
2.5	83 124.9	57 160.0	60 282.8	0.1	20.0	0.1		29 208.5	47 935 . 6		36 8.5	43 44
5 8.6	24 115.2	2 0.3	6.5	13 33,4		34 215.2	:::	4.7	2	3 3.3	13 42.6	45 46
11 18 1	30 45 50	1 1 36	2 2 19			45 91 16		7 15 4	2 2 2	1 3 4	3 5 8	47 48 49
29 1,8 1 1,241	936 17,577,378	162 11,070,401	138 15,305,385	76 814,621	10 800,462	490 21,363,753	15,600	32,402,708	97 17,978,621	206 5,701,470	224 11,201,969	50 51

Summary Table 5.—DRAINAGE PROJECTS, AREA, SIZE, AND TYPE OF ORGANIZATION,

Item and Census year Mcmtana Nebraska Nevada Jersey Me AREA ADDROXIMate land area	New New Y	York C	North Carolina	North
Agrowinste land area.				Dakota
Agrovitate land area.				
Area not used for agriculture or not drained. acres served. 2,110 4,987 800 Net area drained and used for agriculture acres served. 60,112 739,220 41,521 10,956 Parlange established acres served. 43,656 697,914 41,521 6,106 Area served by two or sore served. 10,456 41,306 1,784 1.521 10,956 Area served by two or sore served. 10,456 41,306 1,784 1.521 10,956 PROJECTS, 1960, BY SIZE 112 10,956 112 741,004 1,521 10,956 PROJECTS, 1960, BY SIZE 112 10,956 112 741,004 1,521 10,956 PROJECTS, 1960, BY SIZE 113 1,000 to 1,999 acres. mamber of projects. 11 1,000 to 1,999 acres. mamber of projects. 2,000 to 4,999 acres. mamber of projects. 3 28 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	77,766,400 30,6 46,293,207 13,4	0,680,960 1,489,516 19	31,402,880 15,887,724 564	44,452,480 41,465,717 161
Or not drafined. acres served. 2,110 4,987 10,996 Not area drained and used for agriculture. acres served. 60,112 739,220 41,521 10,996 10 10,996 10 10,996 10 10,996 10 10,996 10 10,996 10 10,996 10 10,996 10,100	31,593	49,616	1,418,892	1,642,543
for agriculture			98,389	1,360
Defore 19500	31,593	49,616	1,320,503	1,641,183
Area served by two or nor projects		45,165	1,066,021	1,517,023
Total of areas of individual projects. acres served. 60,112 742,004 41,521 10,956 PROJECTS, 1960, BY SIZE 11 500 to 999 acres	1,300	4,451	254,482 95,071	124,160 87,840
PROJECTS, 1960, BY SIZE 10,996 11				,
11 10 10 10 10 10 10 10	31,593	49,616	1,417,032	1,732,183
12 1,000 to 1,999 acres mumber of projects 4 18 2 2,000 to 4,999 acres mumber of projects 4 18 2 2,000 to 4,999 acres mumber of projects 3 28 1 2 2,000 to 4,999 acres mumber of projects 1 12 26 26 26 26 26 26				
1	600	8,871	304 202,778	78 52,640
15 2,000 to 4,999 acres	1,000	2,351	134	62,610
10	·		72	19
18			188,866 28	56,660
acres served	15,018	8,500	190,996	63,648
21 20,000 to 49,999 acresnumber of projects	14,975	29,894	12	1 18,176
23			303,597	87,228
224 acres served			3	1
### PROJECTS, 1960, BY TYPE OF ORDANIZATION PROJECTS, 1960, BY TYPE OF ORDANIZATION	:		189,445	59,309
27 Drains owned by one landownernumber of projects 1 640 9 28 Cooperative or mutual drainsnumber of projects 6 4,685 6,940 9 30 Legally organized public drainsnumber of projects 13 99 2 6,787 734,064 41,521 PROMETS, 1960, EY YEAR STARTED 33 1990-1959 number of projects 9 4 5 6,000 4,650 4,650 650	:::			1,331,912
29 Cooperative or mutual drainsnumber of projects 6 4 4 9 9 10,956 21 Legally organized public drainsnumber of projects 13 99 2 22 PROJECTS, 1960, BY YEAR STATED 23 1950-1959	İ			
10,956 1	600	1,300	39 65,426	:::
Series served S4,787 734,064 41,521	:::	13 20,071	403 485,339	144 200,630
33 1950-1959	30,993	28,245	122 866,267	17 1,531,553
34 acres served 8,847 33,300 4,650 Prior to 1950				
36 acres served 51,265 707,704 41,521 6,306 RAINAGE OPERATIONS, 1950-1959 70 Cost of drainage works and services 18 40 3 8 ervices 18 40 3 8 dollare 721,591 1,388,581 219,902 40,617 70 New drainage works constructed, enlarged,	600	4,451	186 322,432	27 55,550
77 Coat of drainage works and services. 18 40 3 8 8 9 1,388,581 219,902 40,617	30,993	45,165	378 1,094,600	134 1,676,633
services				
39 New drainage works constructed, enlarged,	5 127,433	13 202,013	310 2,959,290	41 1,672,790
	2	7	219	37
40 dollars 211,129 417,911 84,215 39,967	70,840	86,009	2,187,155	649,652
41 Open ditches	6.3	25.5	959.0	35 168.5
43 Tile or covered drainsprojects reporting 1 3 44 5.0	:::	19.8	4.1	:::
45 Levees or dikesprojects reporting	:::	5.5	20.7	3.5
47 Pumpa		1 2	3 7	
48 number of pumps	:::	1	5	
50 Cost of maintenance, operation, repair, and administrationprojects reporting 10 36 3 1 and administration	3 56,593	9 116,004	130 772,135	13 1,023,138

^{*}Land served by two or more projects counted only once.

*Total of served for the projects with no deduction for land included in more than one project; extensive contiguous areas not used for agriculture or not drained (line 5)

were excluded.

*Includes projects taken over by another project prior to 1960. See text.

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1960; AND DRAINAGE OPERATIONS, 1950 TO 1959; BY STATES-Continued

@pr†∘	Oklahoma	Oregon	South Carolina	South Dakota	Tennessee	Texas	Utah	Virginia	Washington	Wisconsin	Wyoming	
26,222,080 18,506,796 142	44,087,680 35,800,688 31	61,598,720 21,236,298 110	19,374,080 9,149,492 123	48,881,920 44,850,666 41	26,727,680 16,081,285 179	168,217,600 143,217,559 243	52,696,960 12,688,518 9	25,496,320 13,125,802 66	42,693,760 18,716,972 122	35,011,200 21,156,223 235	62,343,040 36,199,666 6	
8,904,907	133,796	274,754	339,966	658,580	730,855	6,500,043	68,910	98,478	254,482	587,803	23,833	
. 95,492		4,300	1,900		139,976	808,913	2,000	5,700	13,300	3,710		
8,809,415	133,796	270,454	338,066	658,580	590,879	5,691,130	66,910	92,778	241,182	584,093	23,833	
8,747,745 61,670	115,212 18,584	190,869 79,585	229,279 108,787	647,251 11,329	492,825 98,054	5,372,932 318,198	66,390 520	40,807 51,971	227,696 13,486	536,444 47,649	23,833	
64,162		41,927	15,850	2,010	6,527	247,844	•••	9,198	1,300	4,770		
8,873,857	133,796	314,221	353,916	660,590	597,406	5,938,974	66,910	101,976	242,482	588,863	23,833	1
46 31,479 28 38,053	15 9,296 6 9,592	46 32,402 28 37,328	69 44,128 30 35,548	2,820 7,979	55 38,260 60 83,789	78 51,490 54 71,193	 6 8,110	43 29,435 11 14,792	50 34,970 35 50,138	68 48,510 88 124,894	2 3,495	12
13 42,520 1 5,536	10,924 2 12,176	21 65,573 7 44,865	10 30,685 6 47,249	21,786 9 64,609	131,220 11 15,379	99,489 13 96,652	2,800	7 21,948 4 25,553	25 73,502 11 72,372	56 165,204 16 103,960	1 3,347 3 17,031	110
118,498 6 238,003	42,656 2 49,152	78,213 2 55,840	51,682 4 144,624	101,096 5 152,654	108,569 3 69,189	20 277,059 24 777,625	12,000 1 44,000	10,248	11,500	90,295	•••	21
532,618 33 7,867,150		:::		197,579 1 112,067	91,000	735,784 11 3,829,682	•••			56,000		2:
3 2,424	9,942	6 25,690	59 68,203		8 8,433	130 369,079	:::	5 7,286	2 1,375	7 8,055	:::	
76 88,555	10 9,656	56 87,807	97,212	11,059	37 39,293	43 74,170	1,300	59 82,289	20 20,374	17 23,834	:::	
8,782,878	10 114,198	200,724	12 168,501	33 649,531	134 549,680	70 5,495,725	65,610	12,401	100 220,733	211 556,974	23,833	3
63 68,803	20 19,098	51 96,592	82 119,612	8 11,059	25 129,430	110 194,260	1,040	38 63,717	14 18,587	32 55,549		
8,805,054	11 114,698	59 217,629	234,304	33 649,531	154 467,976	133 5,744,714	65 , 870	28 38,259	108 223,895	203 533,314	6 23,833	3:
113 8,268,377	24 249,053	98 5,002,268	95 824,238	22 298,591	36 2,136,236	225 28,895,392	5 558,392	54 401,765	114 4,404,324	140 1,579,398	6 145,293	31
53 267 ,63 5	22 241,561	75 2,308,055	95 785,638	110,334	22 1,853,349	175 13,031,672	3 350,197	22 215,992	49 1,304,272	45 598,533	2,300	
47 57.3	22 172.5	66 260.3	93 551.2	11 38.4	22 134.6	171 3,224.7	60.9	22 45.2	38 97.8	40 261.8		41
18 68.7	:::	6 20.4	10 43.5	:::	:::	17 117.0	3.6		6 8.5	12 78.5	0.4	
	3 2.2	9 43.7	3 10.4		:::	4 4.7			11 30.7	5 12.0	:::	45
		9 16 7	1 1		:::	5 5 4		 2	13 17 18	5 8 1	:::	
77 8,000,742	7 7,492	44 2,694,213	5 38,600	15 188,257	17 282,867	1-1 15,863,720	5 208,195	46 185,773	108 3,100,052	118 980,865	6 142,993	

Summary Table 6.-NUMBER OF DRAINAGE PROJECTS.

		1960 Census		1950 Census,	number of drainage pro	jects in 1950
State	Number of drainage	projects in 1960	Number of superseded projects reporting operations 1950-19591	State count	County count	Excluding irrigation enterprises reporting drainage ²
All drainage States	8,461	9,298	24	°14,533	15,353	5,457
10 "county-dram" States. 30 "drainage district" States. 17 Higathon States. 13 other States.	1,397 7,064 3,157 3,907	1,444 7,854 3,375 4,479	24 22 2	457 614,076 10,862 3,214	457 14,896 11,173 3,723	445 5,012 1,798 3,214
Alabama Arizona Ariansas California Colorado.	11 598 35 ₀ 16	14 647 391 18	1 1	10 25 844 2,047 630	13 25 883 2,097 662	10 2 267 163 51
Pelaware. Florida Georgia Idaho. Illinois.	60 516 52 33 1,496	60 565 65 34 1,765	 2 1	2 1,889 55 379 1,433	2 1,926 76 396 1,662	2 238 55 44 1,433
Indiana Inco Inco Kansas A catucky Louislana	292 249 103 28 915	29 ^u 263 116 31 948	 5 4	79 86 121 18 922	79 86 132 18 946	79 86 84 18 411
Maryland. Wickjan Wimesolo Mississippi Missouri	138 86 307 590 425	146 88 325 676 477		93 54 82 441 318	104 54 82 514 379	93 54 82 441 318
Montana. Nebrasika Newada New Jersey. New Moxco	20 103 2 9 5	21 118 11 11 5	 i	404 473 82 5 223	412 506 86 6 230	27 154 5 5 5
New York. North Carolina Vorth Dakota. Ohio Oklahoma.	19 50+ 161 1+2 /1	22 608 161 144 32		14- 413 21 63 18	16 442 21 63 18	14 413 15 63 14
Oregon. South Carolina South Dakota Tennessee Texas	110 123 +1 179 242	114 135 41 228 257	1 1 1	1,087 45 34 151 543	1,094 52 34 205 569	55 45 32 151 97
Utah . Vinginia . Washngton . fiseonsin . Wyomng .	a 66 102 235 0	69 1134 : 203 6	 6 	471 30 533 206 189	474 30 541 224 194	36 30 140 206 19

Hales indicate States identified in 1950 as "county-drain" States. The other States were sesignated "drainage-district" Ctates. For the "county-drain" States, in 1950, all drainage projects in each county were enumerated as a unit, therefore, the counts shown for that year represent the number of county reports. For 1960, 1930, and 1920, each drain was counted as a separate project. See text.

Dofface Indicates States, other than "county-drain," for which the 1950 drainage data included drained lands in "irrigation enterprised" enumerated in the Census of Irrigation enterprised than "county-drain," for which the 1950 count of Irrigation enterprised enterprised than the Irrigation enterprised e

BY STATES: CENSUSES OF 1920 TO 1960

			1940 Census				1920 Census, nu	mber of reports*
	Number of	drainage projec	ts in 1940	Number of rep	orts in 1940 ⁴	1020 0		
State	State count	County count	As carried in 1950 Census of Drainage report	Total	Excluding those for less than 500 acres	1930 Census, number of reports ⁴	As carried in 1920 Census of Drainage report	As carried in 1940 Census of Drainage report ⁵
All drainage States	39,597	42,363	(3)	79,220	37,530	67,927	756,949	47,399
10 "county-drain" States. 30 "drainage district" States. 17 integation States. 13 other States.	34,596 5,001 1,747 3,254	36,630 5,733 1,926 3,807	(3) 9,403 6,147 3,256	72,993 6,227 2,140 4,087	32,151 5,379 2,020 3,359	62,391 5,536 2,119 3,417	52,962 3,228 906 2,322	44,172 3,227 905 2,322
Alabama Arizona Arikansas. California Colorado	1 5 250 158 56	2 5 287 184 67	1 23 346 1,067 297	2 5 323 188 67	2 5 318 179 65	7 316 162 58	(8) 174 145 24	3 174 144 24
Delarare Florida. Georgia Idaho. Illinois	287 101 52 50 1,695	287 126 78 57 1,9e1	(3) 948 52 250 1,695	640 126 78 57 2,080	365 122 50 52 1,793	146 59 50 1,919	94 46 13 1,365	94 46 13 1,365
Indiana Ionea Kanasas Kentucky Louisiana	8,893 3,180 88 144 495	9,271 3,439 92 160 511	(3) (3) 132 (3) 1,129	22,963 3,804 92 193 661	7,807 2,519 82 143 660	18,339 3,730 88 216 741	12,004 2,883 54 179 111	11,348 2,883 54 179 111
Meryland. Vichigan Vinaceola Missisiph Missiri	126 7,692 2,498 271 286	126 8,130 2,732 343 338	126 (3) (3) (3) 273 286	131 12,041 3,059 350 384	96 6,318 2,768 328 367	10,640 2,885 344 367	10,453 2,340 167 238	8,583 2,340 167 238
Montana Nebraska Nevada New Jersey New Mexico	34 125 8 7	39 145 9 14	239 195 44 169	40 152 9 	37 142 8 14	27 138 7 	17 123 (8) (8)	17 123 1 8
New York. North Carolina. Jonth Pakata. Otto Otto	246 141 11,530 29	288 145 12,222 29	246 (3) (3) (3) (3)	371 164 29,877 29	271 164 11,853 29	130 152 20,191 33	104 137 24,871 (⁸)	104 137 18,607 5
Oregon. South Carolina. South Daketa. Temmessee. Texas.	63 24 202 155 81	65 32 215 207 91	338 24 (³) 155 180	66 32 223 213 93	49 31 185 176 92	51 31 205 191 87	(8) 17 90 95 54	1 17 90 95 54
Utah Virginia. Washington. Wiscomstr. Wyoming.	36 2 165 396 25	37 2 169 430 28	240 2 375 396 175	37 2 182 4-14 28	35 2 133 243 27	32 3 172 373 26	17 52 290 15	17 52 290 15

Summary Table 7.-LAND IN DRAINAGE PROJECTS, AND LAND

				Land	in drainage p	rojecta¹ (acre	:0)			
		1960		19	50	194	10	193	30	
State	Total	Not used for agriculture or not drained ²	Net area drained and used for agri- culture ³	Total	Excluding irrigation enterprises reporting drainage	Total	In occupied farms	Total	In occupied ferms	1920
All drainage States	101,870,257	9,573,393	92,296,864	102,688,331	98,569,272	86,967,039	70,068,469	84,408,093	68,640,109	65,495,038
10 "county-drain" Nates 30 "drainage-district States". 17 in ingaton States. 13 other States.	52,544,324 49,325,933 33,707,337 15,618,596	1,708,987 7,864,406 7,443,626 420,780	50,835,337 41,461,527 26,263,711 15,197,816	52,033,141 50,655,190 35,995,203 14,659,987	52,023,655 46,545,617 31,885,630 14,659,987	47,094,801 39,872,238 26,098,986 13,773,252	42,029,553 28,038,916 15,946,189 12,092,727	47,720,374 36,687,719 23,043,464 13,644,255	44,455,175 24,184,934 13,174,943 11,009,991	43,213,765 22,281,273 12,268,025 10,013,248
Alabama Arizona Arizona Arizona Calfonna. Colorado.	69,901 4,870,106 1,934,825 55,496	4,000 189,140 23,574	65,901 4,680,966 1,911,251 55,496	76,671 197,268 4,701,095 2,554,576 623,976	76,671 3,385 4,606,628 1,453,537 304,364	28,045 298,633 4,592,738 2,667,194 468,322	28,045 296,276 3,100,342 2,551,036 392,132	318,931 4,631,155 2,233,714 366,719	304,802 2,940,035 2,024,446 305,966	39,640 3,479,591 1,108,319 171,656
Delaware Florida Georgia (Baho	356,702 9,222,517 94,728 130,982 5,616,121	15,780 4,367,190 1,500 20,000 52,695	340,922 4,855,327 93,228 110,982 5,563,426	352,547 6,083,676 96,259 436,171 5,370,825	352,547 5,933,918 96,259 143,577 5,370,825	395,014 5,699,022 84,374 659,136 5,091,364	394,164 614,220 83,874 650,135 4,911,263	5,954,934 84,255 375,464 5,032,682	398,200 63,865 362,303 5,005,376	1,637,073 65,452 64,642 3,909,049
Indiana Inso Inso Inso Inso Inso Inso Inso Inso	21,120,936 6,884,409 402,330 945,515 9,089,516	67,490 13,070 29,220 56,716 1,978,892	11,053,446 6,871,339 373,110 888,799 7,110,624	11,017,709 6,734,863 356,988 959,892 12,161,665	11,017,709 6,734,863 355,089 959,892 12,077,915	10,121,952 6,164,344 258,113 465,270 4,219,624	9,703,805 5,945,393 250,455 464,963 2,512,250	10,214,014 6,137,649 257,169 585,625 3,655,483	10,150,221 6,105,496 253,845 515,101 2,571,531	9,087,183 5,224,478 93,856 358,480 2,266,328
Maryland Wichigan Winnesda Misdisaippi Misdisaippi Misolini	353,837 10,208,735 11,688,201 3,123,227 3,123,416	3,390 331,686 1,127,393 82,620 26,100	350,447 9,877,049 10,560,808 3,040,607 3,097,316	323,815 10,194,439 11,269,962 3,023,744 3,147,484	323,815 10,194,439 11,269,962 3,023,744 3,147,484	183,337 8,978,386 10,990,409 2,890,618 3,087,063	181,891 7,796,979 8,397,586 2,182,729 2,673,169	9,180,851 11,474,683 2,988,496 3,150,022	8,826,265 8,782,323 2,092,899 2,427,599	9,729,171 9,232,709 1,601,444 2,596,204
Montana Nebraska Newada New Jezney New Mexico	62,222 744,207 41,521 11,756 31,593	2,110 4,987 800	60,112 739,220 41,521 10,956 31,593	289,189 821,088 251,154 11,206 244,961	99,692 717,791 128,095 11,206 52,113	372,661 916,181 153,373 	362,711 849,948 148,617 286,890	167,629 879,459 162,980	150,844 864,159 155,491	168,682 607,730 15,940
New York North Carolina North Rabota Ohio Oklahoma	49,616 1,418,892 1,642,543 8,904,907 133,796	98,389 1,360 95,490	49,616 1,320,503 1,641,183 3,809,415 133,706	56,465 1 138,569 1, 7,220 3, 7,362 .384	56,465 1,128,509 1,565,055 8,923,362 298,853	825,896 1,376,041 7,729,267 197,646	673,034 1,322,573 7,173,937 182,980	679,236 1,094,142 8,165,494 170,158	331,121 1,094,114 8,132,973 163,936	542,828 1,240,328 8,107,204 12,150
Oregon. South Carolina. South Dakota Termessee Texas	274,754 339,966 658,580 730,855 6,500,043	1,900 1,900 139,976 808,913	270,454 338,066 658,580 590,879 5,691,130	41 ,858 2,111 707,263 615,838 5,794,786	178,493 249,011 706,973 615,838 5,321,147	348,825 204,366 676,472 601,592 4,218,850	302,870 202,002 647,173 579,283 2,819,775	211,182 208,249 697,758 593,560 2,883,356	146,576 94,744 684,746 413,791 1,895,486	4,000 140,031 222,062 363,671 2,166,128
Utah Virginia Washington Wisecomsin. Wyomung.	68,910 98,478 254,482 587,803 23,833	2,300 5,700 13,300 3,710	66,910 92,778 241,181 584,093 23,833	302,156 45,-60 -31,613 514,700 305,981	150,193 45,460 2°2,968 514,700 86,785	202,058 15,714 405,709 761,203 312,662	140,148 15,714 380,964 561,723 287,420	156,052 15,042 367,242 892,713 245,703	109,518 5,704 351,898 574,892 188,327	113,823 94,924 794,569 95,474

Malics indicate States identified in 1950 as "county-drain" States. The other States were designated "drainage-district" States. For the "county-drain" States, all projects in each county were enumerated in 1950 with county drains, and bundled as though they were one project. See text.

Boildage indicates States, other than "county-drain," for which the 1950 drainage date included frained lands in "irrigation enterprises" enumerated in the Census of Irrigation. See foctact 4 and text.

*Land in two or more projects counted only once.

*Extensive contiguous areas not used for agriculture or not drained. See text.

*The areas excluded represented drained land reported by "irrigation enterprises" enumerated in the 1950 Census of Irrigation. Such reports, from the 1950 Census of Irrigation, were included in the data presented for the 1950 Census of Irrigation, but along the projects reported for year indicated.

IN FARMS, BY STATES: CENSUSES OF 1920 TO 1960

		Le	nd in farms (acres)			
State	1960 (39 States)	1950 (40 States)	1940 (38 States)	1930 (35 States)	1920 (34 States)	Approximate land area, 1960 (acres) (39 States)
All drainage States	1,052,713,726	1,123,690,602	1,004,930,884	905,805,407	844,904,236	1,744,413,440
10 "county-drain" Nates. 30 "drainage-district States. 17 ungation States. 23 other States.	256,439,668	267,325,123	259,904,491	252,100,464	251,724,783	337,139,200
	796,274,058	856,365,479	745,026,393	653,704,943	593,179,453	1,407,274,240
	584,235,150	612,591,041	525,174,982	464,801,528	408,684,469	1,047,208,320
	212,038,908	243,774,438	219,851,411	188,903,415	184,494,984	360,065,920
Al abuma.	16,542,730	20,888,784	19,143,391	(5)	(5)	32,678,400
Artzona	(5)	39,916,440	25,651,092	10,526,627	5,802,126	(⁵)
Arkansas	16,458,515	18,871,244	18,044,542	16,052,962	17,456,750	33,599,360
Gationia.	36,887,948	36,613,291	30,524,324	30,442,581	29,365,667	100,206,720
Cotoado	38,787,312	37,953,099	31,527,240	28,876,171	24,462,014	66,485,760
Delaware Florida Georgia ddsho	762,526 15,236,521 19,657,615 15,232,401 30,327,261	851,291 16,527,536 25,751,055 13,224,192 30,978,495	895,507 8,337,708 23,683,631 10,297,745 31,032,572	5,026,617 22,078,630 9,346,908 30,695,339	(5) 6,046,691 25,441,061 8,375,873 31,974,775	1,265,920 34,721,280 37,295,360 52,933,120 35,795,200
Indiana Jova Kansas Kentucky Louisiana	18,613,046 33,830,950 50,152,870 17,030,675 10,347,328	19,658,677 34,264,639 48,611,366 19,441,774 11,202,278	19,800,778 34,148,673 48,173,635 20,294,016 9,996,108	19,688,675 34,019,332 46,975,647 19,927,286 9,355,437	21,063,332 33,474,896 45,425,179 21,612,772 10,019,822	23,158,400 35,860,480 52,510,720 25,512,320 28,867,840
Maryland. Whichigan Whansand Misslestppi Misslestppi	3,456,769	4,055,529	4,197,827	(5)	(5)	6,319,360
	14,782,507	17,269,992	18,037,995	17,118,951	19,032,961	36,492,160
	30,796,097	32,883,163	32,606,962	30,913,367	30,221,758	51,205,760
	18,630,263	20,710,770	19,156,058	17,332,195	18,196,979	30,222,720
	33,155,226	35,123,143	34,739,598	33,743,019	34,774,679	44,248,320
Montana	64,081,391	59,247,434	46,451,594	44,659,152	35,070,656	93,271,040
Nebraska	47,755,708	47,466,828	47,343,981	44,708,565	42,225,475	49,031,680
Nevada	10,942,936	7,063,525	3,785,106	4,080,906	2,357,163	70,264,320
New Jersey	1,379,002	1,725,441	(5)	(⁵)	(*)	4,813,440
New Jersey	46,293,207	47,521,809	38,860,427	30,822,034	24,409,633	77,766,400
New York. North Carolina North Carolina Ohio. Ohio.	13,489,516 15,887,724 41,465,717 18,506,796 35,800,688	16,016,721 19,317,937 41,194,044 20,969,411 36,006,603	(5) 18,845,338 37,936,136 21,907,523 34,803,317	18,055,103 38,657,894 21,514,059 33,790,817	(5) 20,021,736 36,214,751 23,515,888 31,951,934	30,680,96 31,402,88 44,452,48 26,222,08 44,087,68
Olegon. South Carolina South Carolina South Dakota Temmessee Texas	21,236,298	20,327,683	17,988,307	16,548,678	13,542,318	61,598,720
	9,149,492	11,878,793	11,238,697	10,393,113	12,426,675	19,374,080
	44,850,666	44,785,529	39,473,584	36,470,083	34,636,491	48,881,920
	16,081,285	18,534,380	18,492,898	18,003,241	19,510,856	26,727,680
	143,217,559	145,389,014	137,683,372	124,707,130	114,020,621	168,217,600
Ulah Virginia Washington Wisconsin Wigoconsin	12,688,518	10,865,165	7,302,007	5,613,101	5,050,410	52,696,960
	13,125,802	15,572,295	16,444,907	16,728,620	(5)	25,496,320
	18,716,972	17,369,245	15,181,815	13,533,778	13,244,720	42,693,760
	21,156,223	23,221,095	22,876,494	21,874,155	22,148,223	35,011,200
	36,199,666	34,420,892	28,025,979	23,525,234	11,309,351	62,343,040

Summary Table 8.-LAND IN DRAINAGE PROJECTS, AND TOTAL AREA OF INDIVIDUAL PROJECTS, 1920 TO 1960;

		Land in dra	inage project	s1 (acres)		Ar	eas served by	two or more	projects, 196	0
						Number of	Area	with multiple	servicel (sc	res)
State	1960	1950	1940	1930	1920	projects with land served by other projects	Total	Served by two projects	Served by three projects	Served by four projects
All drainage States	92,296,864	102,688,331	86,967,039	84,408,093	65,495,038	3,031	6,276,437	5,769,168	489,409	17,860
10 "county-drain" States. 30 "Drainage-district" States. 17 ungation States. 23 other States.	50,835,337 41,461,527 26,263,711 15,197,816	52,033,141 50,655,190 35,995,203 14,659,987	47,094,801 39,872,238 26,098,986 13,773,252	47,720,374 36,687,719 23,043,464 13,644,255	43,213,765 22,281,273 12,268,025 10,013,248	625 2,406 1,535 871	1,056,170 5,220,267 3,930,957 1,289,310	1,038,038 4,731,130 3,545,169 1,185,961	18,132 471,277 369,958 101,319	17,860 15,830 2,030
Alabasa Arizona	65,901 4,680,966 1,911,251 55,496	76,671 197,268 4,701,095 2,554,576 623,976	28,045 298,633 4,592,738 2,667,194 468,322	318,931 4,631,155 2,233,714 366,719	39,640 3,479,591 1,108,319 171,656	321 116	917,881 106,696	766,460 105,096	136,351 1,600	15,070
Delawore Florids Georgia Idaho. Illinois	340,922 4,855,327 93,228 110,982 5,563,426	352,547 6,083,676 96,259 436,171 5,370,825	395,014 5,699,022 84,374 659,136 5,091,364	5,954,934 84,255 375,464 5,032,682	1,637,073 65,452 64,642 3,909,049	2 246 10 199	7,621 293,808	1,213,420 6,616 267,972	139,572 1,005 25,836	200
Indiana Iowa Kansas Kentucky Luuislana	11,053,446 6,871,339 373,110 888,799 7,110,624	11,017,709 6,734,863 356,988 959,892 12,161,665	10,121,952 6,164,344 258,113 465,270 4,219,624	10,214,014 6,137,649 257,169 585,625 3,655,483	9,087,183 5,224,478 93,856 358,480 2,266,328	206 58 13 2 737	210,322 190,819 4,873 2,000 1,255,460	206,242 189,407 4,873 2,000 1,164,305	4,080 1,412 90,595	560
Maryland Wichigm Winnesota Missisippi Missouri	350,447 9,877,049 10,560,808 3,040,607 3,097,316	323,815 10,194,439 11,269,962 3,023,744 3,147,484	183,337 8,978,386 10,990,409 2,890,618 3,087,063	9,180,851 11,474,683 2,988,496 3,150,022	9,729,171 9,232,709 1,601,444 2,596,204	38 41 154 251 210	44,541 23,279 475,138 294,417 517,507	42,743 23,279 465,938 274,941 463,731	1,798 9,200 19,476 51,746	2,030
Montana Nebraska Nevada New Jergey New Mexico	60,112 739,220 41,521 10,956 31,593	289,189 821,088 251,154 11,206 244,961	372,661 916,181 153,373 305,885	167,629 879,459 162,980	168,682 607,730 15,940 	6	1,784	1,784	: :	
New York North Carolina North Dakota North Dakota Ohn Oklahoma	49,616 1,320,503 1,641,183 8,809,415 133,796	56,465 1,128,509 1,572,220 8,923,362 300,884	825,576 1,376,041 7,729,267 197,646	679,236 1,094,142 8,165,494 170,158	542,828 1,240,328 8,107,204 12,150	120 84 74	95,071 87,840 64,162	93,613 84,680 63,882	1,458 3,160 280	
Oregon South Carolina. South Dakota Temnessee Texas	270,454 338,066 658,580 590,879 5,691,130	418,858 249,011 707,263 615,838 5,794,786	348,825 204,366 676,472 601,592 4,218,850	211,182 208,249 697,758 593,560 2,883,356	4,000 140,031 222,062 363,671 2,166,128	17 6 4 7 77	41,927 15,850 2,010 6,527 247,844	40,087 15,850 2,010 6,527 247,844	1,840	
Utah. Virginia Washington. Wisconsin	66,910 92,778 241,182 584,093 23,833	302,158 45,460 431,613 514,700 325,981	202,058 15,714 405,709 761,203 312,662	156,052 15,042 367,242 892,713 245,703	113,823 94,924 794,569 95,474	18 2 12	9,198 1,300 4,770	9,198 1,300 4,770		

Halics indicate States identified in 1950 as "county-drain" States. The other States were designated "drainage-district" States. For the "county-drain" States all drainage projects in each county were enumerated as a unit. See footnote 5 and text.

Boldface indicates States, other than "county-drain" for which the 1950 drainage data included drained lands in "irrigation enterprises" enumerated in the Census of Irrigation.

Land in two or more projects included only once.

"Difference in the sum of individual projects and the land in drainage projects counting land included in two or more projects only once (see footnotes 1 and 3); land in three or more projects counted two or more projects included in each projects. Assess however, the county of the county of the land in the corn more projects included in each project. Assess show equal the sum of this day is the investment and works of a later project.

For "county-drain" States in 1950, all projects in each county were enumerated as a unit, therefore, no overlapped areas were reported for these States. See text.

AREAS SERVED BY TWO OR MORE PROJECTS, 1960; AND OVERLAPPED AREAS, 1920 TO 1950; BY STATES

	Overl	apped areas, 17	20 to 1950 ² (ac	res)	Tot	al: of areas of	'individual pr	ojents³ (acres)
State	1990	19:414	193-4	19204	19 ₀ r	<u>1</u> 950	19404	19304	19204
All drainage States	3,462,516	45,861,412	44,086,985	30,134,253	99,098,430	106,650,847	132,828,451	128,495,078	95,629,291
10 *county-dran* States. 30 "Drainage district" States. 17 ungston States. 13 other States.	(5) 3,962,516 2,582,562 1,379,954	40,526,363 5,335,049 2,834,894 2,500,155	39,130,549 4,956,436 3,090,189 1,860,247	28,758,310 1,375,943 673,068 702,875	51,909,639 47,188,791 30,596,286 16,592,505	52,033,141 54,617,706 38,577,765 16,034,941	87,621,164 45,207,287 28,933,880 16,273,407	86,850,923 41,644,155 26,139,653 15,504,502	71,972,075 23,657,216 12,941,093 10,716,123
Alabama Atzona Atzona Caldoma, Calorada	629,514 1,080	2,274 1,040,561 88,563 972	1,133,653 60,354 640	363,221	65,301 5,765,338 2,019,547 55,496	76,671 147,268 5,330,609 2,554,576 625,056	29,045 300,907 5,633,299 3,755,757 469,294	318,931 5,764,808 2,294,068 367,359	39,640 3,842,812 1,108,319 171,656
Delawar Flanda Georgia Wako	(5) 1,103,349 294,963	2458,548 764,424 15,396 805,760	1,418,693 709,234	122,869	341,521 6,348,491 101,854 110,982 5,883,070	352,547 7,187,625 %,259 436,171 5,670,788	853,562 6,463,446 84,374 674,532 5,897,124	7,373,6.27 84,255 375,464 5,741,916	1,759,941 65,452 64,642 4,090,599
Indiana. Inica Kansas Kentucky Louisiana	(5) (5) 6,353 (5) 500,987	9,850,573 1,380,587 933 50,347 483,850	212,835,773 1,259,995 557 40,783 437,630	5,928,038 681,265 75,706	11,267,848 7,063,570 377,983 890,799 8,457,799	11,017,709 6,734,863 363,341 959,342 12,671,652	19,972,525 7,544,931 258,946 515,617 4,703,474	23,049,787 7,397,644 257,726 626,408 4,093,113	15,015,221 5,905,743 93,856 358,480 2,342,034
Maryland **Leksyan **Innesofa **Minesofa **Missoluri **Missoluri	-1,853 (5) (5) 288,315 671,651	7,585 7,091,887 3,711,787 236,252 1,347,916	5,851,841 3,206,822 171,448 961,548	6,037,307 741,953 3,040 508,685	3%,736 9,900,328 11,045,146 3,354,500 3,670,629	365,668 10,194,439 11,269,962 3,312,059 3,819,135	190,922 16,070,273 14,702,196 3,126,870 4,434,479	15,032,692 14,681,505 3,159,944 4,111,570	15,766,478 9,974,662 1,604,484 3,104,889
Vontana. Nebiaska. Nevada. Nevada. New Jeraecy. New Jeraecy. New Mexico.	3,336 157,-13	1,528 89,360	14,440	100,720	60,112 741,004 41,521 10,956 31,593	291,525 978,501 251,154 11,206 244,961	374,189 1,005,541 153,373 305,885	167,629 893,899 162,980	168,682 708,450 15,940
New York. North Carolina Aonth Cadota Otto. Allahama.	63,304 (5) (5) (5)	74,272 464,740 217,482,794	9,200 89,240 215,845,135 960	9,600 215,357,608	49,616 1,417,032 1,732,183 8,873,857 133,7%	56,465 1,191,813 1,572,220 8,923,362 300,884	899,848 1,840,781 25,212,061 197,646	688,436 1,183,382 24,010,629 171,118	552,428 1,240,328 23,464,812 12,150
Oregon South Carolina South Dated Tennessee Texas Texas	8,000 (5) 5,148 134,831	5,090 35,100 16,580 312,320	5,832	12,139	314,221 353,916 660,590 597,406 5,938,974	418,858 257,011 707,263 620,986 5,929,617	353,915 204,366 711,572 618,172 4,531,170	211,182 208,249 697,758 599,392 2,883,356	4,000 140,031 234,201 363,671 2,166,128
Utah. Virginia. Washington. Wisconsin. Wyoming.	5,292 30,907 1,720 500	2,092 27,631 11,790	27,609 2,985 2,613	10,553	56,910 101,976 242,482 588,863 23,833	307,450 45,460 462,520 516,420 326,481	204,150 15,714 433,340 772,993 312,662	156,052 15,042 394,851 895,698 248,316	113,823 105,477 794,569 95,474

Summary Table 9.-COST OF DRAINAGE,

			rks and services, eding Census date			Cost of new dr	rainage works	
State	1950- (1960 0		1940-1 (1950 Ce		1950- (1960 (1940- (1950 c	1949 ² ensus)
	Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Dollars
All drainage States	6,137	416,875,865	3,810	179,033,770	3,606	185,688,673	1,128	23,872,422
10 "county-inam" States. 30 "drainage-district" States. 17 ungalou States. 13 other States.	1,048	125,490,706	³ 384	68,802,080	708	38,636,067	³ 145	7,584,076
	5,089	291,385,159	3,426	110,231,690	2,898	147,052,606	983	16,288,346
	2,672	232,295,724	1,460	76,033,098	1,865	124,850,751	402	12,518,129
	2,417	59,089,435	1,966	34,198,592	1,033	22,201,855	58 1	3,770,217
AlabamaArizona	6	31,061	8	70,223	4	25,812		58,768
Arkansas	471	20,488,226	127	5,540,041	352	9,044,351	28	391,898
California	344	29,065,257	159	15,926,510	206	4,525,825	16	135,346
Colorado	15	178,196	47	773,236	3	3,750	5	23,445
Delawar	48	476,944	³ 2	173,300	33	399,511	3 ₁	3,326
Florid	450	91,627,636	207	18,602,511	338	68,012,516	63	2,707,207
Georgia	23	118,012	22	132,354	21	109,012	22	107,104
Udaha	29	2,011,573	44	906,297	16	200,332	12	132,962
Illinois	1,027	28,691,965	892	16,860,472	228	11,114,587	103	1,217,157
Indiana Iova Kansas K-rancky Louisiana	254	13,598,832	³ 75	8,206,459	158	2,528,431	³ 22	785,767
	202	21,032,299	³ 77	13,302,757	110	5,726,914	³ 35	2,143,433
	96	1,665,416	60	1,116,786	45	850,795	10	279,036
	17	897,753	³ 14	711,162	10	97,291	³ 5	44,832
	753	45,796,344	392	16,652,384	576	24,432,591	142	5,316,026
Maryland Whokigan. Winnesdap. Mississippi Mississippi Missouri	29	409,398	28	183,309	23	393,798	22	129,578
	79	37,186,074	351	20,235,636	67	4,783,366	337	2,556,472
	248	41,809,993	371	18,310,583	207	23,831,372	330	1,594,914
	374	9,557,061	345	5,702,914	223	3,855,591	156	441,404
	302	12,138,381	225	8,281,620	117	936,412	9	114,063
Montana Nebrasika Newada, New Jersey New Mexico	1.8 40 3 8	721,491 1,388,581 219,902 40,617 127,433	25 75 5 5	462,260 1,533,019 193,919 39,357 74,636	11 12 1 7 2	211,129 417,911 84,215 39,967 70,840	9 27 2 5	167,830 757,990 62,292 34,407
New York. North Carolina. North Daketa Ohto Notlahma.	13	202,013	12	177,224	7	86,009	7,	75,119
	310	2,959,290	250	1,438,698	219	2,187,155	158	737,994
	41	1,672,790	³ 13	890,373	37	649,652	36	245,364
	113	8,268,377	³ 54	6,189,421	53	267,635	38	147,941
	24	249,053	³ 10	299,114	22	241,561	31	62,027
Oregon . South Carolina . South Dabola . Tennessee . Texs .	98	5,002,268	50	2,175,816	75	2,308,055	17	476,561
	95	824,238	33	319,486	95	785,638	27	206,956
	22	298,591	317	483,275	11	110,334		
	36	2,136,236	26	270,623	22	1,853,349	23	255,697
	225	28,895,392	89	9,534,229	175	13,031,672	32	1,822,245
Utah Virginia. Washngdon. Wisconsin. Wyomng.	5	558,392	30	836,973	3	350,197	13	29,181
	54	401,765	28	111,394	22	215,992	27	95,794
	114	4,404,324	131	1,541,318	49	1,304,272	24	203,873
	140	1,579,398	92	610,918	45	598,533	15	296,176
	6	145,293	14	163,163	1	2,300	2	12,237

MA Not available.

Indica indicate States identified in 1950 as "county-drain" States. The other States were designated "drainage-district" States. For the "county-drain" States in 1950 all drainage projects in each county were enumerated as a unit. See text.

Boldisc indicates States, other than "county-drain," for which the 1950 drainage data included drained lands in "irrigation enterprises" enumerated in the Census of Irrigation. Solution in the county-trains of the county-trains for maken the first and against anneal and the county-trains for maken the first anneal ann

BY STATES: CENSUSES OF 1920 TO 1960

		Cost of maintenance repair, and admit			Caj	oftal invested prior to Census date	
State	1950-1 (1960 Ce		1940-1 (1950 Ce		1940	1930	1920
	Projects reporting	Dollars	Projects reporting	Dollars	Census 'dollars)	(dollars)	(dollars)
All drainage States	4,042	231,187,192	NA NA	155,161,348	691,724,519	680,250,255	372,273,567
10 *county-dran * Nates. 30 *drainage-district * States. 11 ungaton States. 13 other States.	599 3,443 1,735 1,708	86,854,639 144,332,553 107,444,973 36,887,580	3382 NA NA NA	61,218,004 93,943,344 63,514,969 30,428,375	280,245,130 411,479,389 246,416,528 165,062,861	285,567,839 394,682,416 228,456,363 166,226,053	183,423,545 188,850,022 105,366,376 83,483,646
Alabuma Arizona Arizona California Colorado.	169 289 14	5,249 11,443,875 24,539,432 174,446	NA NA NA NA NA	11,455 5,148,143 15,791,164 749,791	410,000 1,119,242 39,450,754 70,144,044 4,890,317	1,875,100 37,532,575 66,451,698 4,358,866	414,425 14,147,174 47,687,153 1,081,875
Delaware Florida Georgia Maho Illinois	25 312 3 29 936	77,433 23,615,120 9,000 1,811,241 17,577,378	32 NA NA NA NA	169,974 15,895,304 25,250 773,335 15,643,315	454,883 43,356,692 2,064,840 7,567,032 72,567,174	45,487,795 1,918,525 5,112,444 74,565,923	13,846,807 794,585 1,668,569 43,595,069
Indiana . Iova . Kansas . Kentucky . Louisiana .	162 138 76 10 490	11,070,401 15,305,385 814,621 800,462 21,363,753	375 377 NA 313 NA	7,420,692 11,159,324 837,750 666,330 11,336,358	47,540,385 75,374,497 3,733,919 ,947,994 23,361,758	54,110,854 77,478,893 2,701,082 5,357,633 20,752,645	31,147,682 49,627,304 936,508 1,521,725 9,021,991
Maryland *tokyan *tokyan Minesota Mississippi Mississippi	8 55 97 206 224	15,600 32,402,708 17,978,621 5,701,470 11,201,969	NA ³ 51 ³ 71 NA NA	53,731 17,679,164 16,715,669 5,261,510 8,167,557	43,914 40,412,251 65,576,077 23,259,677 49,050,414	37,677,084 64,139,641 23,601,443 47,340,174	24,683,715 42,017,447 7,076,164 20,723,128
Montana Nebraska Newada New Jersey New Mexico	10 36 3 1 3	510,362 970,670 135,687 650 56,593	NA NA NA NA NA	294,430 775,029 131,627 4,950 74,636	2,827,839 7,573,999 1,337,647 5,722,121	1,879,296 6,847,070 1,349,774 3,279,371	664,990 4,588,578 117,851 1,710,796
New York. North Carolina. North Cakota Okta. Okta.	9 130 13 77 7	116,004 772,135 1,023,138 8,000,742 7,492	NA NA 313 363 310	102,105 700,704 645,009 6,041,480 237,087	5,467,906 3,673,336 35,215,586 1,971,350	4,719,079 3,148,919 36,836,449 2,283,598	3,623,518 2,208,049 30,680,145 76,415
Oreren South Carolina South Carolina Senth Dakota Tennessee Feas.	44 5 15 17 141	2,694,213 38,600 188,257 282,887 15,863,720	NA NA ³ 17 NA NA	1,699,255 112,530 483,275 14,926 7,711,984	5,482,012 1,241,300 5,078,771 6,501,750 14,047,181	4,165,549 1,265,276 4,534,768 6,366,747 12,002,949	200,000 582,183 1,461,063 2,925,944 5,700,805
Utah. Vinginia. Washington. Wiseconsin. Wyoning.	5 46 108 118 6	208,195 185,773 3,100,052 980,865 142,993	NA NA NA NA NA	807,792 15,600 1,337,445 314,742 150,926	4,869,273 201,300 5,332,842 4,254,586 5,594,856	4,772,000 241,608 4,637,576 6,207,278 5,250,573	1,005,473 1,397,419 4,163,055 1,175,962

Summary Table 10.-TYPES OF DRAINAGE WORKS,

				Open ditches			
State	Constructed, (1960 Cen		Constructed, 19 (1950 Cer			pleted prior to sus date (miles)	
20206	Projects reporting	Miles	Projects reporting	Miles	1940 Census	1930 Census	1920 Census
					3 : 300 0	138,673.0	107,468.2
All drainage States	3,333	33,543.5	1,200	9,301	146,152.3	130,073.0	107,400.
10 "county-dram" States	640	4,746.7	3135	1,484	86,224.8	85,480.9	78,762.
30 "drainage-district" States	2,693	28,796.8	1,065	7,817	59,927.5	53,192.1	28,705.
17 urregation States	1,759	25,363.2	487	6,009	37,033.9	32,367.3	14,517.8 14,187.
13 other States	93m	3,433.6	578	1,808	22,893.6	20,824.8	14,107.
labama	4	15.3	7	66	42.3		
Igona					100.8	349.4	32.
rkansas	347	1,796.0	29	123	6,030.3	4,974.3	3,154.
alifornia	167	812.9	15	34	6,091.1	4,605.9	3,009.
olorado	1	0.3	4	11	972.9	814.9	132.
elacare	33	215.7	31	2	1.482.3		
londa,	327	10,554.6	145	2,263	5,022.1	5,112.6	1,990.
POTPIS	21	52.4	22	115	550.3	496.9	276.
aho	11	38.6	19	59	968.1	651.2	274.
llinois	143	374.5	96	273	6,862.2	5,996.4	4,754.
			2		00 000 3	20.786.8	17.470.
drama	135	487.0	3 ₁₉ 3 ₃₃	198	22,008.1 5,189.7	4,800.0	3,998.
# d	78	271.1	9	48	381.4	324.7	138.
ansas	44	168.0	34	22	1,231.8	1,204.8	664.
entucky	10		141	2,116	7,105.5	7,701.2	1,771.
OUISIARA	560	8,202.7	141	2,110	7,202.2	7,70272	2,72.
ary) and	23	137.2	26	138	461.3		
behigan	64	974.6	3 34	554	19,608.6	17,188.5	16,023.
linnesota	205	2,333.2	329	357 [15,856.7	14,477.6	14,657.
Mississippi	222	566.6	156	372	4,344.1	4,022.1	1,815.
Missouri	113	296.7	8	30	5,191.5	4,960.5	3,438.
Contana	1	43.1	8	40	420.9	284.2	102.
lebraska	1	60.6	28	167	1,406.7	1,202.3	734.
levada	- 1	36.5	2	21	426.4	33⊶.8	16.
lew Jersey	7	13.6	5	12			
lew Mexico	2	6.2		* * *	625.2	282.9	124.
	7	25.5	7	91			
lew York	217	959.0	153	403	1,8+6.6	1,483,5	1,171.
orth Carolina	35	168.5 .	3 ₆	9	940.4	817.6	708
Thio	47	57.3	38	38	18,732,2	25,048.2	24,984.
iklahoma	22	172.5	31	16	334.3	303.0	18.
					mit.	100 3	
)regon	66	260.3	17	90	780.1 459.9	495.1 423.0	262.
outh Carolina	92	551.2	28	128	840.7	854.4	237.
outh Pakota	11	38.4 134.6	23	105	1,508.0	1,413.0	777.
rennessee	171	3,224.7	33	948	4,906.3	3,661.8	2,728.
AND	1/1	29.004.1	-				•
Jtah	2	60.9	12	29	267.8	304.3	120.
/irginia	22	45.2	27	59 55	46.7 885.0	746.7	162
Vashington	38	97.8	23 15	25 76	1.580.7	1,989,4	1,691.
Visconsin	40	2.1.8	12	5	643.3	521.0	25.
Wyoming			-		045.5	JEA. U	

See foctmotes at end of table.

BY STATES: CENSUSES OF 1920 TO 1960

			Tile	180 tns			
	Constructed, 1		Constructed, 194			deted prior to us date (miles	
State		-					
	Projects reporting	Miles	Projects reporting	M11-	1 44' Census	1950 Densus	130 Census
		+					
All drainage States	+27	2,192.1	14n	581	:5,734.	f5,031.9	40,311.7
10 "county-drain" States	212 211	1,675.6 516.5	991	1.0	47,262.9 2,471.1	46,530.1 8,501.8	26,191.1 6,1.0.6
17 inigation States	67 148	224.4	22 43	4º 97	1,735.6 4,735.5	4,615.9 4,435.9	.500018 4,097.8
i) a bama					8.8	14.3	1.0
urkansas					10.8	0.1	20.4
California	21	46.0	2	11	326.2	486.2	85.6
Colorado	1	41.4	1	1	365.3	369.5	195.2
Pelaware	***		***	121			
lorida	2	23.2	4	10	2.0	40.7	
eorgia	1	7.8	2		174.6	19,9	1.8
daho	8.5	124.9	34	67	4,246.6	3,825.6	3,507.1
ndiana	57	160.0	313	48	10,754.7	10,438.7	8,227.6
0104	60	282.8	323	165	12,873.2	13,382.4	10,394.9
(ansas	1	0.1	3;		210.5	212.1	213.0
entuckyouisiana	1	20.0			2.0 6.0	71.0 7.6	0.2
taryland			3.0	211			
Mechtyan	29	208.5	311	145	3,229.5 9,893.4	3,490.2 9,451.3	2,173.9 5,924.6
Imnesofa	47	935.6		80	31	43.5	238.8
Mississippi	36	8.5			170.2	123.4	38.8
fontana	1	2.2	2	2	73.8 26.3	76.7 93.4	50.7 359.4
levada						4.0	4.0
Vew Jersey	3	5.0	2	2 ,			
New Mexico	***			***	308.9	305.4	282.2
Wew York	2	19.8					
Worth Carolina	1	4.1			20.1		
North Dakota	18	(0.00	35		10.4	9.6 9,371.6	9.3 9.205.3
Ohio	18	68.7			10,163.9	9,3/1.0	7,200.
марома,		,,,					
Oregon	6	20.4	2	2	150.6	42.5	13.0
South Carolina	10	43.5	3	e i	205.0	150.0	101.5
outh Dakota	***			4 4 4	335.8	315.3	179.
ennessee	17	117.0	1		14.1	8.5	***
Jiah		3.6	3	5	1,618.6	1,944.5	599.1
Washington.	6	8.5			179.0	199.2	93.0
Wisconsin	12	78.5	3	10	282.5	303.4	211.3
					262.1	237.6	114.2

Summary Table 10.-TYPES OF DRAINAGE WORKS,

	Levees or dikes										
State	Constructed, 1 (1960 Cens		Constructed, 194 (1950 Censu			mpleted prior to usus date (miles)					
	Projects reporting	Miles	Projects reporting	Miles	1940 Census	1930 Census	1920 Census				
All drainage States	322	2,016.9	152	1,020	6,792.9	6,539.5	3,509.				
10 "county-drain" States. 30 "drainage-district" States. 17 imigation States. 13 other States.	16 306 254 52	17.6 1,999.3 1,789.6 209.7	36 146 134 12	55 965 925 40	622.4 6,170.5 4,088.1 2,082.4	429.9 6,109.6 3,770.3 2,339.3	263. 3,246. 2,049. 1,197.				
O abama Arzona Arzona Arzona Zaldorido	9 50	27.8 227.4	4	25 	24.5 332.4 1,537.6	2.5 201.9 1,389.5	26. 121. 1,131.				
Pelaware	119 5 24	1,198.1 2.6 115.2	97	661 19	470.6 5.0 95.4 1,157.8	718.4 74.8 1,108.4	66. 9, 650.				
ndiana ona Anasas -entucky -ouisiana	2 6 13 34	0.3 6.5 33.4 215.3	32 34 7	20 35 58 	139.0 456.8 278.3	131.9 113.4 227.0 576.3	165 45 165 0. 440				
faryland fichigms finesona fississippi fississippi fissouri	2 2 3 13	4.17 0.4 3.3 42.6			13.6 0.4 190.5 687.1	34.6 149.7 227.7 931.4	33. 0. 6. 456.				
fontana kebraska kevada, kew dersecy kew Mexico			1	 1 	0.8 230.3 23.0 	116.8 33.0 12.0	26.				
dew York forth Carclina wath Dakota hite Mile Mile Mile Mile Mile Mile Mile Mil	1 3	20.7 20.7	1 1 	2 1 	4.0 5.2	22.0	33. 2: 9: 5:				
regon outh Carolina outh Dakata ennessee exis	9	43.7	 	1	143.2 7.4 30.0 61.7	121.4 11.0 29.8 215.9	2 42 59				
Minginia Minginia Kashington Hisconsiin Yooming	ii ii	31.7			5.0 72.4 8.6 7.2	2.0 78.8 9.0	2				

Boldace indicates States, other than "county-drain," for wanch the 1990 drainage data includes grained leads in Interval energy, and selection of the See text.

NA Not available. "Floodgate, curvets, bridges, drainage wells or pumps, land leveling, etc.

"Floodgate, curvets, bridges, drainage wells or pumps, land leveling, etc.

"Floodgate, curvets, bridges, drainage wells or pumps, land leveling, etc.

"Floodgate, curvets, bridges, drainage wells or pumps, land leveling, etc.

"Floodgate, curvets, bridges, drainage wells or pumps, land leveling, etc.

"Floodgate, curvets, bridges, drainage wells or pumps, land leveling, etc.

"Floodgate, curvets, bridges, drainage wells or pumps, land leveling, etc.

"Floodgate, curvets, bridges, drainage wells of the selection of the selectio

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BY STATES: CENSUSES OF 1920 TO 1960–Continued

					Pum	рь					Other drainage works
ì	Installed,	1950-1959 Census)			Inst	alled prior	to Census da	te			constructed or
State	(2,00			Projects r	eporting			Number o	r pumps		installed, 1950-1959
	Projects reporting	Number	1950 Ceneus ²	1940 Census	1930 Census	1920 Census	1950 Census ²	1940 Census	1930 Census	1920 Census	rrojects reporting (1960 (ensus)
All drainage States	357	957	NA	353	292	210	NA.	1,284	1,028	453	264
10 "county-drain" States. 30 "drainage-district" States. 17 unigation States. 13 other States.	12 345 301 44	20 937 866 71	NA 369 314 55	18 335 253 82	20 272 195 77	17 193 NA NA	NA 1,346 1,015 131	28 1,256 NA NA	37 901 841 150	NA NA NA	69 195 124 71
ALe basss Artzona Arkanasa California Colorado	3 74 1	 4 162	 2 120	2 2 135	2 2 105	1 94	5 382	3? 5 763 4	175 5 426	(4)	42
Pelacare Florida. Georgia Idaho Illinoia	139 11 30	548 18 45	NA 99 21 47	14 1 26 68	12 1 23 60	 2 4 48	NA 354 54 115	68 (4) 73 125	37 4 37 120	(4) 	 28 1
Indiana Jorda Kansas Kentucky Louisiana.	1 2 45	1 2 91	NA NA NA NA 30	4 11 2 	4 11 1	6 1	NA NA NA 102	5 18 4 59	7 21 2 52	(4) (4) (4)	36 19 2
Muryland. Vichigam Vinnesola Missisippi Missisipi	7 2 1 3	15 2 3 5	NA NA 8	 2 1 1	 2 2 3 11	 3 1 8	NA NA 16	 2 3 (4) 16	3 5 5	(²) (²) 14	2 2 2
Montana Rebraska Newada New Jersey New Mexico	 1	 4 		1 1	::: 1 :::			3	3 2 		
New York. North Carolina. North Carolina Onto Oktoon Oktoon	1 3 	? ? 	NA NA NA		i 		NA NA NA			(4)	
Oregon. South Carclina. South Maketa Tennessee. Texas	9 1 5	16 1 	23 NA 	26 4	 	(²) 	70 NA 	56 11	31 53	(4)	
Utah Virginia Washngton Wisconsin.	13 5	17 8	15	16 1	 11 1	1	43	(2)	12	(4)	1

Summary Table 11.-DRAINAGE PROJECTS BY

State		A11	drainage projec	ts ¹			Under 500	acres ²	
	1960	1950	1940 ³	1930 ³	1920 ³	19504	1940 ³	1930 ³	1920 ³
All drainage Statesnumber acres	8,461 99,098,430	14,533 106,650,847	79,220 132,828,451	67,927 128,495,078	47,399 95,629,291	8,289 606,031	541,690 9,065,810	31,056 7,348,844	22, 6,374,
10 "county-drain States"number	61,397 651,909,639	6457 652,033,141	72,993 87,621,164	62,391 86,850,923	44,172 71,972,075	61,760	40,842 8,820,957	30,489 7,186,355	21, 6,263,
30 "drainage-district" Statesnumber	7,064 47,188,791	14,076 54,617,706	6,227 45,207,287 2,140	5,536	3,227 23,657,216		848 244,853	567 162,489	111,
17 Hrigation Statesnumber	3,157 30,596,286	10,862 38,577,765	2,140 28,933.880	41,644,155 2,119 26,139,653	905	7 _{604,271} 8,276 604,271	120	93 26,757	13,
Alabamanumber	11	10	2						
Arizonanumber	65,901	76,671 25	29,045			17			
Arkansas number	-98	1-7,268	300,907 323	318,931 316	39,640	2,359 560		•;	
acres	5,765,338	5,330,609	5,633,299	5,764,808	3,842,812	83,548	1,369	1,148	1,
Californianumber	2,019,547	2,047 2,554,576	2,755,757	162 2,294,068	1,108,319	1,659 152,728	2,609	1,816	1,
Coloradonumber	16 55,496	630 (625,056	67 469,294	58 367,359	24 171,656	491 43,649	2 812	902	
Helawarenumber	*60	62	640				275		
Floridanumber	6341,522 *16	6352,547 1,889	853,562 126	146	94	1,588	76,337 4	21	
acres Georgia number	6,348,491	7,127,025	F,463,446	7,373,627	1,759,941	61,246	1,505	824 11	
acrus	101,454	96,259	84,374	84,255	65.452	***	7,919	2,708	3
idahonumber	110,983	379 436,171	57 674,533	375,464	64,642	284 24,271	1,061	562	
Illinoisnumber	1,496 5,883,070	1,433 5,677,78°	1,08° 5,897,124	1,919 5,741,916	1,365		287 86,593	234 73,697	54
Indone number	9202	970	21,963	13,339	11.348		15,156	9.872	5
acres	611,26°,348	*11,017,709	19,972,525	23,049,757	15,015,001	-61	2,943,563	2,157,441 1,207	1,474
Imanumber	°7,963.5°0	°+,734,763	3,804 7,544,931	3,730 7,397,644	2,883 5,905,743	6410	1,285 344,133	323,198	254
Kansasnumber	103 277,983	121 363,341	92 258,946	88 257,726	93,85o	37. 1,899	10 3,147	4,407	4
hentuckynumber	9210,000	°10	191 515,617	216	179	61 9384	50	29	
Louisiananumber		1459,39L 9L1	001	616,408 7.1	358,420 111	486	15,727 1	8,331	18
acres	3,450,799	1.,671.65.	~,703,~74	4,093,113	.,341,134	30,156	462		
Marylandnumber	138 39c,786	95 205,663	190,922				35 11,204		
Michigannumber	0.26	bE _{re}	12,1-1 16,070,273	10,640	4,583		5,723	4,907	3
quancanta number	40,900,322	10,104,420	16,070,273	15,030,692	15,766,478		1,454,436	1,272,745	1,122
Mississippinumber	°11, %1, 196	*11,.67,462	14,702,196 350	14,631,505	4,97-,662		90,140	133,983	227
acres	3,354,500	3,312,059	3,126,871	3,159,944	1,604,484		7,109	7,359	1
Missourinumber	1,670,621	319 2,419,135	4,434,979	-,111,570	3,104,889		4,932	4,113	1
Montananumber	20	404	-40	27	17	355	3	2 507	
Nebraska	60,112 103	212,525	374,189 150	167,629	168,682	24,266 303	1,275 10	10	
Nevadanumber.	7-1,00-	473,501	1,605,541	393,899	70°, 456	15,765	2,980	2,704	1
acres	41,721	251,155	155,573	162,390	15,740	8,124	400		
New Jerseynumber	13,956	11,5 % 2.3							
New Mexiconumber	11,491	2.3 2,9cI	214,285	11 176,292	1.0,219	194 21,681			
New Yorknumber	19								
North Carolina number	4 4616 164	90,465 41	371 399,548	130	104		100	20	
acres	1,417,732	1,191,815	3000	688,436 150	552,428 137		26,640	5,591	3
acres		1,571,225	1,847,791	1,183,382	1,240,329	lef	18.024	13,942	10
ohnnumber	12,01,00	13,313,362	15,212,761	24,010,629	18,607 23,404,812		18,024 3,985,626	13,942 3,278,132	3,154
rdluke anumber	1 1,74	6300,384 613	29 197,6-6	33 171,118	12,150	3 31		570	
Oregonnumber	110	1, 87	343,4 1 5	51	1	995	17	11	
South Carolinanumber	314,221	45	32	211,182 31	4,000 17	34,385	4,754	2,471	l
South balate number	353,91a 631	257,011	204,366 203	208,149	1-6,031	63	40 38	535	1
acres	6660,500	6707,263	711,572	€97,758	.34,201	6770	11,095	11,855	10
Tennessenumber	179 597,406	151 62 ,986	612,172	191 690,392	363,671		37 11,895	8,791	2
Texasnumber	5,938,974	5,429,610	4,531,170	1,893,156	2,100,128	 .60 48,881	1 260		1
Utahnumber	9	77	30		17	386	2	1	
Virginia number	ns,-40	+17,450 30	204,150	1.6.05.	113,823	24,-31	503	190	
acres	101,7%	-4,467 433	15,714	15,042 172	52	27.			
%ashingtonnumber	12. 242, 22	102750	182 432,340	172 594,351	105,477	14,043	13,112	11,236	1
Nisconsinnumber	231 588,963	20c 51c,427	772,993	373 995,698	290 794,569	:::	201 54,047	1-3 32,938	31
Wyomingnumber	t	189	28	26	15	143	1		1
GCTGF	13,833	32t,481	312,663	248,316	95,474	13,684	225	***	I

See forthote, at end of table.

23

	*00 to 999 acres					1,05 4,79 ago										
	-00	to 999 acr					Total			1,000	to 1,000		2,400	to 4,999 N		
1960	1950	1940 ³	1930 ³	19203	1960	1/150	19403	19303	1/4/03	1960	1950	19403	1960	1950	194)3	
2,847 1,950,621	1,593 1,103,139	15,855 11,234,727	15,765 11,130,096	10,717 9,091,516	3 69 7,764,699	2,757 6,201,930	⁵ 17,213 35,069,097	16,767 34,074,009	11,7°7 24,522,°36	2,:81 2,301,301		10,4.7 14,558,019	1,588		%, /sk 20,511,078	1
6487 6328,289 2,360 1,622,332 1,096 754,239	65,690 71,588 71,009,449 753 521,490	14,499 10,280,792 1,350 953,935 500 345,711	14,472 10,219,725 1,293 910,371 616 421,716	10,197 8,722,780 515 368,736 45 e^,106	6,65, 6,04,649 3,207 6,860,050 1,292 2,655,531	6120,21 7,715 76,081,720 1,045 2,324,590	14,727 29,382,117 2,486 5,686,980 707 1,644,869	14,585 20,075,041 2,182 4,998,968 675 1,491,159	10,401 21,338,619 1,356 1,183,817 306 769,484	6306 6-21,827 1,775 2,459,474 749 1,023,937	614 620,501 71,398 71, 62,705 559 781,359	9,242 12,833,923 1,225 1,724,196 330 455,958	6156 6482,827 1,432 4,400,576 533 1,631,594	628 639,709 71,317 74,119,015 86 1,542,731	5,485 16,548,234 1,261 3,86,784 377 1,188,911	3 4 5 6 7 8 9
3,749 3,749 230 150,233 104 71,294 4 2,892	2,199 1 610 37 24,199 129 87,405 48 32,883	14,523 14,523 14 9,928 13 9,154	11 640 17 12,060 15 10,359 9 5,986	1 640 5 3,669 15 10,059 5 3,396	11,271 185 383,112 151 332,349 17,394	3 12,051 3,385 68 169,293 164 368,196 64 144,573	3 5,659 93 238,621 78 200,131 28 68,815	5,691 91, 235,400 69 178,776 25 59,784	39 103,001 60 155,747 11 21,260	109 144,769 70, 101,339	3,385 25 33,005 81 104,470 32 46,713	3,385 30 39,084 28 40,137 9	311,271 76 _38,843 75 _230,410 4 _11,464	3 12,051 43 130,228 83 259,686 32 98,300	1 4, 74 63 199, 537 50 159, 994 19 56,400	10 11 12 13 14
\$18 \$11,961 142 101,911 21 14,172 11 8,075 313 228,468	(6) 85 59,903 24 18,158 31 22,646 278 201,239	137 97,758 3 2,510 31 22,399 12 9,517 463 330,937	2,980 22 15,704 8 5,632 441 320,566	3,370 166 11,750 4 2,472 290 210,371	838 883,396 216 488,077 28 55,146 18 42,870 873 2,014,354	(6) (6) 12- 271,132 28 52,790 49 119,375 849 1,344,745	201 403,065 36 93,942 177 36,525 22 61,296 1,038 2,345,828	 40,013 40,043 23 60,005 944 2,160,720	29 63,157 14 25,205 6 15,210 676 1,547,003	824 831,048 109 1-7,248 18 20,533 1,214 438 633,572	(6) (6) (6) (7) (8) (8) (8) (8) (8) (8) (8) (8) (9) (9) (9) (9) (9) (9) (9) (9) (9) (9	128 133,133 14 20,060 10 15,821 5 5 5,367 24 747,792	81,448 851,448 107 340,809 10 25,613 4 30,656 435 1,320,782	(6) (6) 55 178,019 7 29,844 27 82,505 434 1,358,527	73 71 (,382 22 73,892 7 20,703 17 54,929 509 1,598,036	19 20 21 22 23 24 2° 26 27 2°
6120 680,373 661 640,868 20,036 67 64,566 373 261,601	6768 61 6819 16 11.837 (6) (6)	3,973 2,806.651 917 650,436 23 16,723 37 27,088 327 219,183	4,117 2,896,966 927 663,537 21 15,227 55 36,505 454 309,076	2,812 2,098,534 704 500,458 16 11,944 33 23,143 4 2,264	687 6160,430 687 6187,921 47 105,012 67 610,683 397 734,737	65 618,330 611 627,987 41 40,238 64 65,933 160 310,669	3,254 6,189,895 1,286 2,645,729 40 80,945 81 176,366 173 348,202	3,645 7,256,727 1,290 2,639,362 39 78,425 99 202,222 146 258,698	2,465 5,017,315 1,010 2,065,762 15 33,08c 67 130,176 25 64,063	659 677,382 651 672,696 33-597 65 68,083 271 373,294	61,259 65,67,039 24,26,970 64,65,933 106,143,618	2,171 2,969,20e 754 1,051,108 24 34,216 45 56,749 105 137,499	*32,548 636 *115,231 70,415 61 *2,000 126 361,443	620, 442 177 53,268 (6) (6) 54 167,051	1,763 3,270,689 532 1,594,621 16 46,729 114,617 63 210,703	31 32 33 34 35 36 37
45 31,330 628 618,013 6110 676,273 222 149,764 99 65,228	(6) (6) (6) 135 91,316 26	34 25,675 2,911 2,073,240 517 386,722 25 18,630 37 28,045	2,656 1,866,876 487 356,396 28 19,705 37 28,667	2,133 1,849,136 437 307,812 13 9,789 18 13,154	77 179,308 66 611,285 6110 6200,810 236 508,014 193 449,824	58 146,356 62 66,340 61,260 173 393,642 157 410,708	58 128,407 2,928 5,823,875 1,546 3,532,795 156 392,968 163 412,987	2,631 5,193,743 1,235 2,828,230 143 347,761 149 373,337	2,74 7,702,624 610 1,385,737 84 201,240 93 234,414	36 52,090 67,085 676 6105,305 122 161,464 85 113,155	22 36,713 61 61,920 61,260 84 118,377 53 51,053	28 40,662 1,863 2,601,894 757 1,084,817 94,085 55 22,679	41 127,218 61,200 63,4 695,505 114 34c,550 102 231,669	275,321 1043 64,520 (6) (6) (7) 275,321 104	30 87,74° 1,046 3,221,981 784 2,447,978 80 298,883 103 330,308	444547
9,051 14 9,084 9,084 3,400	29 21,045 10 6,917 1 750	7 5,336 17 12,894 1 600 	6 4,093 23 15,649	1,307 22 14,570	7 15,591 36 117,454 1 2,500 4 7,556 1 1,000	25 50,160 98 322,490 19 38,169 4 10,456 3 15,818	19 30,412 75 188,656 2 6,940 2 8,267	13 34,157 58 139,639 3 7,740 3 8,740	10 2°,711 63 173,1°2	4,921 18 27,791 2,500 1	12 16,828 38 16,581 10 11,028 1 1,200 5	12 17,267 28 42,039	3 10,670 23 99,673 1 2,500 2 4,95r	12 39,352 50 165,309 23,141 3 9,250 3 8,519	7 -1,1-5 -17 1-0,617 0,3-0 	50 51 52 53 54 55 56 57
144 8,871 304 202,778 678 652,646 631,479 615 69,296	4,8:7 209 132,493 (6) (6) 61 6583	72,318 1 72,318 1 720 5,958 4,200,927	26 17,924 3 2,120 6,134 4,364,144	23 15,928 16,928 1 640 94,058 3,928,312 1 750	2,351 200 368,015 604 6119,270 641 680,573 64 620,516	2,300 161 23,095 6,000 67 620,490 93 610,632	120 224,665 59 181,720 5,241 10,145,994 14 42,391	5.51.3	44 %,026 50 148,680 3,493 4,615,229 2 5,000	2,351 13- 179,743 643 643 652,610 628 938,053 60	2 2,300 10+ 137,059 (6) (6) (6) 62 62,330 (6)	81 109,235 12 18,050 3,446	72 188,866 619 656,660 613 642,520 63 610,924	55 156,636 62 60,640 65 617,270 63 610,632	5,369,341 13 40,788	60 61 63 63 64 65 66 67 68
46 32,402 6 44,128 62,820 55 38,260 75 51,42	16,933 61 6800 34,627	7 5,458 48 37,250 43 31,339	5	2,10g 12,10g 13,495 17,12,465	102,001 40 66,233 613 624,765 101 215,009 86 170,682	92,031 16 32,971 67 622,598 95 185,760 50 116,552	23 51,349 11 25,760 117 140,297 100 2.5,679 12 36,731	27,109 92	1 4,000 3 10,793 30 6°,146 49 117,6°1	26 37,328 30 35,48 67,079 60 23,78+ 54 71,193	21 42,451 10 12,300 (6) (6) 50 73,448 27 30,415	12 15,984 7,736 62 91,140 51 74,530 3 4,056	21 05,573 10 30,685 67 621,786 41 131,220 22 99,429	15 42,580 60,261 67 622,598 35 112,312 23 30,137	11 35,365 18,024 4" 14",150 49 151,149	70 71 72 73 75 74 76 78
43 29,43 34,47 66 48,510	13,685 66 49,167 8 62 43,147	3,020 51 36,320 105	47 32,331 79	1,749 13 3,161 40 27,975 1 500	7 10,910 18 36,740 60 123,640 144 290,098 3 6,802	10 18,207 73 154,5n2 124	23 59,715 51 2,146 67 130,806 115 247,146 11 25,382	139,169 114 225,528 11	11 29,104 26 52,820 78 168,051 7	8,110 11,792 13,001,138 88 124,894 2 3,455	21,273 24,273 7 8,254 46 71,905 68 42,463 6 4,404	9 12,884 45 63,978 68 95,697 4 6,587	1 2,90F 21,948 25,73,562 56 165,204 1 3,347	20, 22, 23 9, 263 82, 657 82, 657 10, 630 14 43, 512	14 46,031 2,146 66,522 47 151,449 7 18,796	82 83 84 85

Summary Table 11.-DRAINAGE PROJECTS BY SIZE,

Ť								10,0	00 to 49,999 s	cres			
	State		5,000	to 9,999 ac	res		Total						
		1960	1950	1940 ³	1930 ³	1920 ³	1960	1950	1940 ³	1930 ³	1920 ³		
1 2	All drainage Statesnumber acres	728 5,081,845	679 4,754,671	2,357 16,387,515	2,291 15,865,002	1,472 13,357,936	819 16,758,378	818 17,098,296	⁵ 1,884 ⁵ 36,721,074	1,814 35,075,951	1,107 23,826,149		
3	10 *county-dran* Statesnumber scres	663 6450.885	628 6215,942	1,708 11,844,795	1,640 11,380,140	1,064 10,537,608	6132 63,168,131	62.980.509	1,137 20,874,066	1,105 20,306,960	656 14,402,437		
5	30 "drainage-district" Statesnumber	665 4,630,960	7651 74,538,729	649 4,542,720	651 4,484,862	408	687	62,980,509 7703 714,117,787	747 15,847,008	709	451 9,423,712		
6 7 8	acres 17 imigation Statesnumber acres	300 2,132,948	291 2,037,649	1,922,304	259 1,819,937	1,069,961	367 7,630,247	386 8,128,968	431 9,606,659	394 8,709,736	5,278,049		
9 10	Alabamanumber		7,540				2 50,881	2 54,881	28,045				
11	Arizonanumber		1 5,000			9,000	· · · ·	75,914	(⁵)	20,600	30,000		
12 13 14	Arkansasnumber	60 439,295	47 341,529	70 523,848	67 493,382	39 274,227	2,164,973	2,321,290	2,420,960	2,414,091	68 1,473,391		
15	Californianumber	56 381,682	48 326,785	34 232,307	32 220,410	30 203,655	36 619,410	34 674,625	925,127	34 707,309	33 672,181		
17 18	Coloradonumber	35,210	12 81,865	10 75,300	73,941	26,000		14 269,086	12 205,969	13 226,746	71,000		
19	Delayerenumber	81	(6)	14			87	(6) (6)	13				
20 21	Floridanumber	⁸ 6,346 66	35	83,616 23	28	18	811,700 69	44	192,786	46	30 694,045		
22 23	Georgianumber	473,168 1	242,982	156,326 2	187,251	114,456	1,383,240	971,293	849,321	1,017,982	1		
24 25	ldahonumber	9,846	15,046 8	17,531 7	15,800	15,245	22,690	10,265	8	10,000	10,000		
26 27	Illinoisnumber	11,988 182	60,393 179	52,215 196	60,261	6,960 144	48,049 125	155,806 125	229,926 95	181,947 98	40,000		
28 29	acres	1,240,267	1,231,412	1,342,317	1,360,351	976,666	2,139,686 616	2,113,490 612	1,692,968	1,728,101	1,239,719		
30	acres	685,208	625,216	2,362,676	2,727,803	1,718,075	6374,691	6300,891	4,036,299	5,088,605	2,917,817		
32	acres	6140,346	659,155 17	1,280,602	1,295,465	1,005,124	6962,368 8	6711,112 10	52,169,573	2,054,594	1,895,497		
32 33 34 35 36	acres	155,065	125,555	73,361	74,962	22,792	97,870	133,812	84,710	84,705 13	21,040		
36	acres	614,400	614,400	130,760	122,746	79,592	682,562 79	65,871	58,070 103	200,998	107,381		
37 38	Louisiananumber	28 203,467	135,583	40 291,267	259,448	159,161	1,711,637	1,203,875	2,260,132	2,044,093	1,037,196		
39 40	Marylandnumber	13 89,562	90,165	25.p36			33.541	33.541					
41	Michigannumber	622.096	67,930	286 1,951,253	254 1.743.097	9151 3,251,318	33,541 67 6215,382	6283,436	175 3,110,113	177 3,281,204	1,072,885		
43	Minnesotanumber	636,520	623,936	357 2,519,891	335	177	625 6713,965	6728,576	325 6,339,013	306 5,968,444	234 4,630,974		
45	Mississippinumber	53	56 394,409	60 429,877	67 462,954	23 157,416	1,292,852	1,270,559	78 1,532,535	74 1,558,578	35 664,285		
46 47 48	Missourinumber	361,648 50 345.052	52 367,628	54 385,082	64 450,062	48 341,884	72	1,473,791	95 2,091,937	85 1,721,812	1,557,927		
49	Montananumber	343,032	7	3	2	3	2	5	7	4	1		
50 51	acres Nebraska number	26	47,728 30	20,059	11,792 23	19,664 17	35,470 15	79,991 20	188,628 22	117,080 21	24,000 14		
52 53	Nevadanumber	197,135	214,581	168,646 1	149,998	115,106	259,365 1	332,455	458,594 3	413,263 3	275,562 1		
54	New Jersey number		21,650	7,551			39,021	125,595	60,598	77,956	15,940		
54 55 56 57	New Mexico number												
58	acres	15,018	37,196	37,590	29,450	34,579	14,975	30,655	163,018	54,102	31,640		
59 60	New Yorknumber	8,500	8,500				29,894	40,838	•••	***			
61 62	North Carolinanumber	28 190,996	19 130,256	19 132,000	12 81,272	71,717	23 465,198	445,924 445,924	20 387,725	19 365,742	265,640		
63	North Dakotanumberacres	60 603,648	62 612,504	302,855	53 394,682	51 358,390	6105, 4U4	693,864	63 1,205,806	479,500	32 501,377		
65 66	Ohionumber scres	65,5 3 6	61 65,530	3,076,820	373 2,549,773	300 2,850,517	6356,501	615 6417,817	201 3,485,021	175 2,973,427	122 3,152,280		
67 68	Oklahomanumber	612,176	45,376	10 70,393	60,381	6,000	65 91,908	6122,752	84,872	63,49 1			
69 70	Oregonnumber	7 44,865	10 60,821	9 55,341	51,451		134,053	10 163,545	8 180,930	109,511			
71	South Carolinanumber	47,249	6 48,627	56,398	7 44,628	20,400	196,306	7 164,880	5 5116,710	132,322	40,000		
73	South Dakotanumber	664,609	661,889	9 65,929	15 97,962	17,788	6253,750	6256,190	192,513	9 196,697	5 124,226		
72 73 74 75 76	Tennesseenumber	75,379	17	21	17 115,598	13 91,612	177,758	15 293,772	12 201,786	16 236,523	139,666		
77 78	Texasnumber	13	14	10 71.143	8 54,662	32,032	1,05-,68-	48 1,260,502	1,292,456	1,006,763	30 746,544		
79 80	Utahnumber		S	2	3	1	2	6	5	4	3		
81	acres Virginianumber		56.698	11,292	15,545 1	5,280	56,000 1	113,640 1	129,620 1	85,405	77,690		
82 83	Washington acres	25,553 11	1:	12	9,538 10	3	10,248	13,568	13,568	2			
84 85	#isconsin	72,372 16	102,518 14	85,877 13	74,317 19	19,649	11,500 6	43,750 5	35,223 8	47,808 16	21,900 14		
86 87	Bores Wyoming number	103,960	90,670	84,102 9	124,722	75,427	90,295	73,310 8	175,075 5	306,177 5	228,426 2		
88	BCres	17,031	77,916	60,181	63,067	27,400		173,134	121,447	100,375	45,920		

Mailes indicate States identified in 10%0 as "county-drain" States. The other States were designated "drainage-district" States. See footnote 6 and text.

Boldace Indicates States, other than "county-drain," for which the 1950 drainage data included drained lands in "irrigation enterprises." See footnote 4 and text.

"Land in two or more projects included in each project. Areas shown equal the sum of areas of individual projects with no deduction for land included. Insert colontate can detect the state of t

BY STATES: CENSUSES OF 1920 TO 1960-Continued

10,000 to 49,999 acres - Continued											100.000					
10,000	to 19,999			to 49,999	acres		50,000	to 99,999	acres			100,00	00 or more	acres		
1960	1950	1940 ³	1960	1950	1940 ³	1960	1950	1940 ³	1930 ³	1920 ³	1%0	1950	1940 ³	1930 ³	19203	
499 6,963,107	484 6,781,099	1,228 16,964,180	320 9,795,271	334 10,317,197	⁵ 656 19,756,894	152 10,630,513		⁵ 159 10,760,472	168 11,403,982	8,605,536	246 56,912,374	252 66,6 31, 930	562 13,589,756	66 13,597,194	31 4,850,978	1
668 6989,540	7747 4675 4433	800 10,922,231	6 ₆₄ 62,178,591	664 62,232,834 7270	337 9,951,835	6 ₆₂	6 ₅₇ 64,131,676 7 ₈₈	3,944,427	76 5,099,727	3,725,087	6191	6197 644,579,354 7 ₅₅	19 2,474,010	3,582,975	1,982,361	1
5,973,567	76,033,424	428 6,041,949	7,616,680	78,084,363	319 9,805,059	6,091,412	76,123,174	6,8 1 6,045	6,304,255	4,880,449	14,393,790	722,052,576	11,115,746		2,868,617	
212 2,961,427	219 3,040,507	3,206,106	155 4,668,820	167 5,088,461	205 6,400,553	4,114,687	4,272,415	4,9 1 0,900	4,498,792	3,631,023	13,308,634	20,688,382		9,171,556	2,114,095	
		28,045	50,88 1	54,881		:::		:::	:::	:::	:::		···	:::		1
54	28,424	:::		47,490	(⁵)			52,378	50,000	:::	12	110,000	5242,870 8	242,000	::;	111111111111111111111111111111111111111
776,548	890,690 20	975,512 26	1,388,425 9	1,430,600 14	1,445,448 18	778,208 8	933,322 12	1,087,472		1,162,120		1,457,428	1,346,506	1,379,517	825,264	
385,170	259,547 10	353,899	234,240	415,078	571,228	477,966	740,077	401,973	285,542	65,000	136,846	204,800	983,682	889,856		1
	138,831	115,483		130,255	90,486		53,000	109,244	:::	50,000	82	62				1
⁶ 11,700	(6) (6)	135,532	(8) (6)	(6) (6)	57,254	(⁶) (⁶)	(6) (6)			10	6228,119	6352,547	ii	 15		2 2
531,642	303,173	319,224	31 851,598	668,120	530,097	909,054	505,069	709,654	732,777	604,913	2,993,041	5,075,510	4,650,188	5,330,327	280,000	2 2
22,690	10,265		;		(3)				i	:::	:::		::: _i			2
	25,635 100	29,775	48,049 27	130,171	200,151 22		53,680	121,760	67,057	·			198,757	:::		2
1,317,391 6g	1,356,455	1,008,760	822,295 6g	757,035 67	684,208 63	151,034	69,902	98,481 16	98,481	62,333	109,261 651	110,000 651				2
6101,632 630	65,280 617	2,070,077	6273,059 616	6235,611 614	1,966,222	6479,819 613	6 555,344	1,022,024		1,032,904	610,087,327 623	610,117,160 628	711,417	1,044,155	755,799	3
6429,493	6243,381	1,344,725	6532,875	6467,731	5824,848	6932,852	6512,797	312,478	279,408	184,867	64,799,215	65,422,583	5142,080	142,080		3
97,870	133,812	84,710	62			165	-64	.52				*64			:::	3 3 3
629,191 43	632,591 32	58,070 51	653,371 36	633,280 27	52	6335,569 16	6283,009 8	107,606 12	55,606 11	10	6443,019 22	6590,295 24			3	3
600,013	456,721	729,869	1,111,624	747,154	1,530,263	1,046,309	604,461	762,667	664,813	628,385	4,500,048	10,271,867	821,561	556,985	450,960	3
33,541	33,541	120	65	67		63,045	81,280	12		91	637	637				4
631,169	628,316 67	1,598,807	6184,213 618	6255,120 617	1,511,306	6403,485 622	6418,560 619	769,674 17	445,530 28	568,205 15	635	69,478,173 635	887,682	8		4
6 ₁₀₅ ,929	e _{107,651}	2,964,592	6608,036 25	620,925 25	3,374,421 30	61,597,870 12	61,359,843 12	1,100,804	1,838,978	944,845	1	69,156,347 2	732,831	1	1,226,562	14
582,586 43	554,362 42	693,017 50	710,266	716,197 30	839,518 45	898,322	913,712 8	611,775 14	631,908	320,400 8	143,900	248,365 3	133,976	131,678	249,460	14
603,643	607,549	693,745	847,008	866,242	1,398,192	527,879	540,420	999,189	922,594	546,213	831,995	1,005,829	512,807	610,985	405,062	4
12,580	32,000 17	44,775 16	22,890	47,991 3	143,853		77,000	3					119,479	:::	100,000	1 5
163,857	230,040	225,381	95,508	102,415	233,213	167,366	172,165	173,771	172,646	128,500		:::	:::	:::		5 5
	13,850	11,278	39,021	111,745	49,320	:::	50,599	77,284	77,284		:::		:::	:::	:::	5
		i	:::	:::		:::	2	i	i	1	:::	:::	:::	:::	:::	
14,975	30,655	14,975			148,043		132,264	97,010	84,000	74,000						. 5
29,894 12	40,838	12	ii	12		3		i	:::	:::	:::	:::	:::	100 000	100,000	6
161,601	116,263	165,585 42	303,597	329,661	222,140	61	189,445	2	2	3	66	66	:::	100,000		. 6
618,176 68	629,096 66	592,086 152	687,228 66	64,768 69	613,720	67	6114,017 66	5	122,560	231,241 97 763,025	633	633	:::	:::	:::	6
6118,498 63	685,198 65	2,058,764	6238,003	6332,619	1,426,257	(6)	6473,784 63 6161,373			763,023	(6) (6)	(6) (6)		:::		6
642,656 6	673,600 8	49,880	649,152 2	649,152 2	34,992		1	1								6
78,213 4	115,483	56,261 3	55,840 4	48,062	124,669	:::	51,355			1 1		:::	:::	:::	:::	13
51,682	52,096 65	40,253	144,624	112,784	576,457	6100.500	64		2	57,600	6112.067	6112,067		:::	:::	1
6101,096 8	682,562 9	49,698	6152,654	6173,628	142,815	1	6252,949	164,488	166,758			*112,067		:::		0000000000
108,569 20 277,059	134,670 16 252,721	132,240 12 174,768	69,189 24 777,625	159,102 32 1,007,781	69,546 36 1,117,688	91,000 11 735,784	11 801,243	16 1,156,660	14 994,527	918,105	3,829,682	3,568,777	6	4	457,871	1
12,000	47,640	22,259	44,000	66,000	107,361	:::								:::	:::	
10,248	13,568	13,568	:::			:::		:::		:::	:::	:::		:::	:::	. 8
11,500	21,750	1 1	:::	22,000	24,831	:::	98,180		90,000	1 ::;	:::	:::	132,000			8
90,295	73,310	1 4	:::		114,445		56,000	139,200	152,480	262,880				:::		8 8
:::	59,535	37,545	:::	113,599	83,902	:::	:::	105,427	51,436					:::		

^{*}In 1960, all drains under county management were enumerated as a unit with each portion of intercounty projects credited to the county where located. In 1950, the procedure was similar for "county-drain" States but the county report included all projects in the county, including those not under county management. The 1960 dats (500-999 acres) include reports for county-drains for two counties (Benton, 1070s, and Jerauld, S. Dak). With less than Socres due to intercounty projects. The 1950 dats (under 500 seres) include 3 such counties (Benton, 1070s, Fulton, Ky., and Jerauld, S. Dak). In 1940, 1930, and 1920, each drain was considered a separate project.

Totals for 30 States shown for 1950 were based on interested projects divided on State lines. The 1950 report also shows totals, by size of project, for 30 States based on interested projects not divided on State lines.

**In 1960, for Delaware, the area within each county served by drains for which there was no active management was counted as one combined project. See text.

**Page shown for 1920 in the 1940 report. See footnote 3.

Summary Table 12.-DRAINAGE PROJECTS BY TYPE OF

- 1			All d	Drains owned by one landowner ¹							
	State	1960²	1950 ³	19403	1930 ³	1920 ³	1960²	1950 ³	1940 ³	1930 ³	1920 ³
1 2	All drainage Statesnumber acres	8,461 99,098,430	14,533 102,688,331	39,597 86,967,039	67,927 84,408,093	⁵ 56,949 65,495,038	1,817 4,162,544	551 1,382,830	NA 985,046	NA 854,880	NA 642,018
3	10 "county-drain" Statesnumber acres	1,397 51,909,639	457 52,033,141	34,596 47,094,801	62,391 47,720,374	52,962 43,213,765	79 90,943	(6)	NA 101,226	NA 70,223	NA NA
5	30 "drainage-district" Statesnumber	7,064 47,188,791	14,076 50,655,190	5,001 39,872,238	5,536 36,687,719	3,228 22,281,273	1,738	1,382,830	NA 883,820	NA 784,657	NA NA
7 8	17 irrigation States	3,157 30,596,286	10,862 35,995,203	1,747 26,098,986	2,119	906 12,268,025	1,391 3,603,074	1,155,977	NA 708,103	NA 680,504	NA NA
9	Alabamanumber	11	10	1			1		***		
10	Arizona	65,901	76,671 25	28,045 5	***		500				NA (7)
12 12 13	Arkansas	598	197,268	298,633	318,931	39,640 174	167	15	NA.	NA.	(7) NA
14	California acres	5,765,338 356	4,701,095	4,592,738 158	4,631,155 162	3,479,591	236,104 157	67 ,7 90	84,358 NA	40,660 NA	26,900 NA
16 17	Recres	2,019,547	2,554,576	2,667,194	2,233,714	1,108,319	311,903	177,321	89,985 NA	50,384 NA	147,678 NA
18	acres	55,496	623,976	468,322	366,719	171,656	2,638	21,421	25,291	17,351	33,630
19 20	Delawarenumber	60 341,522	352,547	287 395,014				(6) (6)			•••
21	Floridanumber	516 6,348,491	1,889 6,083,676	101 5,699,022	146 5,954,934	94 1,637,073	388 1,836,408	122 385,291	NA 22,640	NA 105,533	NA 118,890
22 23 24	Georgianumber	52 101,854	55 96,259	52 84,374	59 84,255	46 65,452	12,847	9,569	NA 3,700	NA 9,000	110,000
25	ldahonumber	33	379	50	50	13	5	4	NA.	NA.	NA.
26 27	acres Illinoisnumber	110,982 1,496	436,171 1,433	659,136 1,695	375,464 1,919	64,642 1,365	4,074	3,210 16	2,492 NA	1,850 NA	560 NA
28	Indiananumber	5,883,070	5,370,825	5,091,364 8,893	5,032,682	3,909,049 12,004	78,673	27,449	30,822 NA	15,722 NA	17,542 NA
30	acres	11,267,848	11,017,709	10,121,952	10,214,014	9,087,183	22,765	(6) (6)	1,000 NA	15,726 NA	5,623 NA
31 32	lowanumber	7,063,570	6,734,863	3,180 6,164,344	6,137,649	2,883 5,224,478	11,428	(6)	53,786	21,557	12,795
33 34	Kansasnumber	103 377,983	121 356,988	88 258,113	88 257,169	93,856	3,660		7,754	5,550	NA 2,200
35 36	Kentuckynumber	890,799	18 959,892	465,270	216 585,625	179 358,480	2,000	(6) (6)	NA 3,150	NA 3,500	NA 6,400
37 38	Louisiananumber	915 8,457,799	922	495 4,219,624	741 3,655,483	2,266,328	526 810,903	199 344,239	NA 412,303	NA 402,496	NA 36,463
39	Marylandnumber	138	93	126							
40 41	gcres Wichigannumber	396,786 86	323,815 5-	183,337 7,692	10,640	10,453	11	(6)	NA.	NA.	NA.
42 43 44	Winnesota number	9,900,328	10,194,439	8,978,386	9,180,851	9,729,171	7,454	(6) (6)	7,560 NA	21,530 NA	22,280 NA
44	Mississippi number	11,045,146	11,269,962	10,990,409	11,474,683	9,232,709	34,930 121	(6) 65	35,730 NA	1,800 NA	800 NA
46 47	Missouri number	3,354,500	3,023,744	2,890,618	2,988,496 367	1,601,444	155,650	111,253	50,155 NA	27,400 NA	56,750 NA
48	acres	3,670,629	3,147,484	3,087,063	3,150,022	2,596,204	42,154	4,250	5,600	9,955	9,896
49 50	Montananumber	60,112	404 289,189	34 372 ,6 61	167,629	17 168,682	640	3,260	NA 7,000	NA 8,100	NA 13,650
50 51	Nebraskanumber	103 741,004	473 821,088	125 916,181	138 879,459	123 607,730		· · · ·		NA 3,080	NA 7,270
52 53 54 55	Nevadanumber	41,521	82 251,154	153,373	7 162,980	1 15,940			NA 2,600		NA (7)
	New Jerseynumber	9	5						• • • •		
56 57	New Mexiconumber	10,956	11,206 223	7	11		i	:::	:::	:::	NA (7)
58	New York	31,593	244,961	305,885	176,292	140,219	600				(*)
60	North Carolina number	49,616	56,465 413	246	130	104	1,300	2,638	NA.	NA.	NA.
62	acres	1,417,032	1,128,509	825,576 1-1	679,236 152	542,828	65,426	16,342	58,700	17,370	59,851
63 64	North Dakotanumber	1,732,183	1,572,220	1,376,041	1,094,142	1,240,328		(6)	:::	:::	NA.
65 66	Ohionumber	8,873,857	63 8,923,362	11,530 7,729,267	26,191 8,165,494	8,107,204	2,424	(6)	:::	NA.	7,736
67 68	Oklahomanumber acres	31 133,796	18 300,884	29 197,646	33 170,158	12,150	9,942	(6)	:::	4,110	NA. (7)
69 70	Oregonnumber	110 314,221	1,087 418,858	63 348,825	211,182	4,000	25,690	2 700		NA 4,500	NA (7)
71 72	South Carolinanumber	123 353,916	45 249,011	204,366	208,249	17 140,031	59 88,203	20 52,477	NA 21,940	NA 15,092	NA 25,200
73	South Dakotanumberacres	41 660,590	34 707,263	202 676,472	205 697,758	90 222,062		(6) (6)	·	NA 2,000	
75 76	Tennesseemumber	179 597,406	151 615,838	155 601,592	191 593,560	95 363,671	8,433	2,175	NA 1,200	NA 600	
77 78	Texasnumber	243	543 5,794,786	81 4,218,850	87 2,883,356	54 2,166,128	130	22 147,345	NA 40,380	NA 28,600	NA 7,500
78	ecres Utah	5,938,974	471	36	32	17		4	NA.	NA	NA
80	Virginianumber	66,910 66	302,158 30	202,058	156,052 3	113,823		4,120	12,020	11,200 NA	8,304
82	acres Washington number	101,976 122	45,460 533	15,714 165	15,042 172	52	7,286		NA	3,304 NA	NA.
84	Wisconsin number	242,482	431,613	405,709	367,242	94,924	1,375	1,280	1,280 NA	1,200 NA	1,100
85 86	acres	588,863	514,700 189	761,203	892,713 26	794,569	8,055	700	3,600	5,710	NA.
87	Wyomingnumber	23,833	325,981	312,662	245,703	95,474	:::	•••			500

Make: indicate States identified in 1950 as "county-drain" States. The other States were designated "drainage-district" States. For the "county-drain" States in 1950 all projects in each county were enumerated as a unit; therefore, the counts shown for that year represent the number of county reports. For 1940, 1930, and 1920, each drain was counted as a separate project. See footnote 7 and text, of the state of the s

ORGANIZATION, BY STATES: CENSUSES OF 1920 TO 1960

Legally organized public drains								Not 16	ientifiable u	nder the 196	O classificat	tion			
drains1		20.02	20/03	20103	Fores	10003	Irrigst	ion enterpris	es with drai	nage ⁴	Other	and not rep	nd not reported		
1960 ²	1950 ³	1960-	1950*	1940*	1930*	1920	1950 ³	1940 ³	1930 ³	1920 ³	1940 ³	1930 ³	19203		
2,469 3,577,204	893 1,409,494	4,175 91,358,682	4,013 95,776,948	NA 81,705,415	NA 80,894,347	NA 64,352,059	9,076 4,119,059	NA 4,240,578	NA 2,644,674	NA 462,599	NA 36,000	NA 14,192	N 38,36		
739	(6) (6)	579	6445	NA.	NA.	NA	12	NA.	NA.	NA NA		14,152	JG, JO		
953,061 1,730	893	50,865,635 3,596	652,023,655 3,568	46,901,141 NA	47,569,562 NA	NA NA	9,486	92,434 NA	80,589 NA	NA NA	NA.		34,28 N		
668	1,409,494 200	40,493,047 1,098	43,753,293 1,171	34,804,274 NA	33,324,785 NA	NA NA	4,109,573 9,064	4,148,144 NA	2,564,085 NA	NA NA	36,000	14,192 NA	4,08		
1,213,864	455,058	25,779,348	30,274,595	21,242,739	19,784,683	NA NA	4,109,573	4,148,144	2,564,085	NA.	:::	14,192	::		
33,745	40,735	31,656	35,936	NA 28,045											
• • • •	· · ·		3,385	NA 5,659	NA 26,931	NA (7)	193,883	NA 292,974	NA 292,000	NA (7)					
202 276,463	23 32,398	229 5,252,771	229 4,506,440	NA 4,508,380	NA 4,590,495	NA 3,452,691	577 94,467				:::	:::			
45	13	154	102	NA:	NA	NA.	1,884	NA.	NA NA	NA		:::			
124,511	73,266	1,583,133 10	1,202,950 39	1,168,701 NA	1,167,139 NA	795,441 NA	1,101,039 579	1,408,508 NA	1,016,191 NA	165,200					
5,610	27,190	47,248 59	255,753 62	255,709	250,238	138,026	319,612	187,322	99,130		•••				
780	(6) (6)	340,742	6352,547	NA 395,014	•••	• • • • • • • • • • • • • • • • • • • •			:::		:::				
36 274,431	13 118,476	92 4,237,652	103 5,430,151	NA 5,676,382	NA 5,849,401	NA 1,518,183	1,651 149,758			:::					
24,325	10 17,205	64,682	69,485	NA 80,674	NA 75,255	NA 55,452		:::	:::						
4,362	5,195	25 102,546	37 135,172	NA 123,753	NA 118,645	NA 15,082	335 292,594	NA 532,891	NA 254,969	NA 48,000					
154	189	1.303	1,228	NA.	NA.	NA.					:::				
228,762 188	302,121	5,575,635 86	5,041,255 679	5,060,542 NA	5,016,960 NA	3,891,507 NA							•		
237,047	(6) (6) (6) (6)	11,008,036 150	611,017,709 686	10,120,952	10,198,288 NA	9,049,193 NA				:::			32,30		
125,657	(6)	6,926,485	66,734,863	NA 6,110,558	6,116,092	5,211,683				:::	:::		:		
23,427		84 350,896	355,089 618	NA 250,359	NA 251,619	NA 91,656	37 1,899				***				
8,660	(6) (6)	17 880,139	6959,892	NA 462,120	NA 582,125	NA 352,080									
235 309,784	95 128,197	154 7,337,112	117 11,605,479	NA 3,795,721	NA 3,252,987	NA 2,229,865	511 83,750	NA 11,600							
9	3	129	90	NA	3,626,707		65,750	11,000					:		
14,183	4,333 (6) (6)	382,603 54	319,482 654	183,337 NA	NA	NA I					:::				
22,724	(6)	9,870,150 90	610,194,439 682	8,970,826 NA	9,159,321 NA	9,706,891 NA									
248,293	(6) (6) 127	10,761,923	611,269,962 249	10,954,679	11,472,883	9,231,909						:::			
292,531	140,006	2,906,319	2,772,485	NA 2,840,463	NA 2,961,096	NA 1,544,694		:::					:		
56 57,739	5,290	314 3,570,736	315 3,137,944	NA 3,081,463	NA 3,140,067	NA 2,586,308									
6	3	13	22	NA.	NA NA	NA	377	NA	NA	NA					
4,685	2,260 5	54,787 99	94,172 149	53,418 NA	39,984 NA	129,432 NA	189,497 319	312,243 NA	119,545 NA	25,600 NA		:::	-		
6,940	3,970	734,064	713,821	721,986 NA	696,994 NA	591,772 NA	103,297	194,195 NA	179,385 NA	8,688			•		
	2,500	41,521	125,595	24,398	80,756	(7)	123,059	126,375	82,224	NA (7)					
10,956	6,906	::;	4,300	NA NA	NA NA		218	NA NA	NA NA		:::	:::			
:::	:	30,993	52,113	172,796	59,837	NA (7)	192,848	133,089	116,455	NA (*)	:::		-		
13 20,071	25,582	28,245	28,245						•						
403	287	122	122	NA.	NA.	NA.	:::	:::		:::	:::		::		
485,339 144	332,356	866,267 17	779,811 615	766,876 NA	661,866 NA	482,977 NA		NA.	NA.	:::	:::	•••			
200,630	(6) (6)	1,531,553 63	61,565,055 663	1,356,113 NA	1,088,053 NA	1,240,328 NA	7,165	19,928	6,089	:::		• • • •	.,		
88,555	(6) (6) (6) (6)	8,782,878	68,923,362 614	7,729,267 NA	8,165,494 NA	8,097,553 NA				NA NA	:::		1,91		
9,656 56	(6)	114,198	7298,853 44	197,646 NA	166,048 NA	(7)	2,031	NA NA	NA NA	(7) NA		NA			
87,807	16,507	200,724	161,286	139,580	121,778	NA (*7)	240,365	209,245	71,112	(7)	:::	13,792	::		
52 97,212	28,540	168,501	14 167,994	NA 182,426	NA 193,157	NA : 114,831							::		
11,059	(6) (6)	649,531	632 6706,973	NA 603,966	NA 621,258	222,062	2 290	72,506	74,500		:::	:::			
37 39,293	20 i 21,623	134 549,680	129 592,040	NA 600,392	NA 592,960	NA 363,671				:::					
43	13	70	62	NA.	NA.	NA NA	446	NA 334,092	NA 87,279	NA 56,000					
74,170	7	5,495,725	5,155,647 25	3,844,378 NA	2,767,477 NA	2,102,628 NA	473,639 435	334,092 NA	87,279	56,000					
1,300	16,070 28	65,610	130,003	148,677 NA	144,852 NA	105,519	151,965	41,361							
82,289	29,739	12,401	15,721	15,714	11,738			***		:::	:::		::		
20,374	8,205	100 220,733	130 263,423	NA 264,039	NA 275,642	NA 93,824	393 158,705	NA 140,390	NA 90,000	:::	:::	NA 400	::		
17 23,834		211 556,974	205 514,000	NA 721,603	NA 887,003	NA 790,489		:::		:::	NA 36,000		N 4,08		
	2,669	23,833	17 84,116	NA 88,883	NA 89,908	NA 60,834	170 239,196	NA 223,859	NA 155,795	NA 34,140					
•••	4,009	دده,دء	04,110	دراهرها	69,908	00,04	2.79,196	ور ٥, دءء	100,190	J-4, 144U					

**Pland in two or more projects included only once. For 1950 and 1940, land in two or more projects included only for the project last organized; whereas, for 1930 and 1940, 1930, and 1940 reports also shew, for the classification by type of organization, totals representing the sums of the areas of individual projects without deduction for land included in more than one project. Number, for 1930 and 1940, representing the sums of the areas of individual projects without deduction for land included in more than one project. Number, for 1930 and 1940, represent to the number of reports and includes projects wholly superseded by later projects and, for intercounty projects, the reports for each county. See text.

**Irrigation enterprises were from Census of Irrigation and represented reports of drained irrigated lands with no indication as to whether the irrigation organization was responsible for the drainage; in 1940, 1930, and 1920, "irrigation enterprises" having their own drainage were enumerated in the Gensus of Turnings, the sum of the numbers reported for the separate States equals 56,190.

**Manuber as shown on page 366 of the 1920 report; the sum of the numbers reported for the separate States equals 56,190.

Turnings(in the Census of Irrigation and Irrigation enterprises**) for "outsy-to-tains" States, and included in totals for all drainage States.

Turnings(in the Census of Irrigation) were enumerated with county-drains and are therefore shown under "legally organized public drains."

Summary Table 13.-AREA DRAINED BY YEAR DRAINAGE WAS ESTABLISHED, 1960; AND

\neg			Area drained b	y year drainage	was establishe	d, 1960 Census		Drainage projects by year organized			
		Land in	n drainage proj			eas of individu	al projects ²		1960 Census²	1	
	State	All projects	Drainage established 1950-1959	Drainage established before 1950	All projects	Drainage established 1950-1959	Drainage established before 1950	All projects	Organized, 1950-1959	Organized before 1950	
1 2	All drainage Statesnumber acres	8,461 92,296,864	NA 5,336,593	NA 86,960,271	8,461 99,098,430	1,791 5,481,823	7,190 93,616,607	8,461 99,098,430	2,503 6,258,852	5,958 92,839,578	
3	10 "county-drain" States number	1,397 50,835,337	NA 1,787,086	NA 49,048,251	1,397 51,909,639	443 1 ,7 95,253	1,177 50,114,386	1,397 51,909,639	536 843,095	861 51,066,544	
5	30 "drainage-district" Statesnumber acres	7,064 41,461,527	NA 3,549,507	NA 37,912,020	7,064 47,188,791	1,348 3,686,570	6,013 43,502,221	7,064 47,188,791	1,967 5,415,757	5,097 41,773,034	
7	17 imigation Statesnumber acres	3,157 26,263,711	NA 2,521,948	NA 23,741,763	3,157 30,596,286	724 2,627,739	2,594 27,968,547	3,157 30,596,286	1,147 3,813,290	2,010 26,782,996	
9 10 11	Alabama number Anzona number	65,901 	NA 1,050	NA 64,851	65,901 	1,050	10 64,851	65,901 	500	10 65,401	
12 13 14	Arkansasacres acres acres	598 4,680,966	NA 233,263	 NA 4,447,703	598 5,765,338	151 235,521	484 5,529,817	598 5,765,338	338 773,954	260 4,991,384	
15 16 17	California number acres Colorado number.	356 1,911,251 16	NA 244,352	1,666,899 NA	356 2,019,547 16	84 252,515	282 1,767,032 16	356 2,019,547 16	267,081	269 1,752,466 16	
18	Delaware	55,496 60	NA	55,496 NA	55,496 60	2	55,496 59	55,496 60	10	55,496 50	
20 21 22	Florida acres acres	340,922 516 4,855,327	856 NA 548,956	340,066 NA 4,306,371	341,522 516 6,348,491	856 152 565,295	340,666 398 5,783,196 42	341,522 516 6,348,491 52	22,822 197 828,437 14	318,700 319 5,520,054 38	
23 24 25	Georgianumber dahonumber	93,228 93,228	NA 25,246 NA	NA 67,982 NA	101,854 33	25,246 2 2864	76,608 32	101,854 33 110,982	34,533 1 704	67,321 32 110,278	
26 27 28	Illinoisnumber acres	110,982 1,496 5,563,426	864 NA 134,693	110,118 NA 5,428,733	110,982 1,496 5,883,070	74 134,853	110,118 1,446 5,748,217	1,496 5,883,070	101 227,957	1,395 5,655,113	
29 30 31	Indiana number acres	292 11,053,446 249	73,382 NA	NA 10,980,064 NA	292 11,267,848 249	73,382 77	265 11,194,466 203	292 11,267,848 249	154 197,004 64	138 11,070,844 185	
32 33 34 35	Kansas	€,871,339 103 373,110	123,235 NA 63,975	6,748,104 NA 309,135	7,063,570 103 377,983	124,262 26 64,075	6,939,308 81 313,908	7,063,570 103 377,983	75,368 27 68,772	6,988,202 76 309,211	
36	Kentucky	28 888,799 915	NA 6,046 NA	NA 882,753 NA	28 890,799 915	6,046 116	884,753 835	28 890,799 915	8 6,646 307	884,153 608	
37 38 39	Marylandnumber	7,110,624 138	965,687 NA	6,144,937 NA	8,457,799 138	1,032,655	7,425,144	8,457,799	1,521,116 22	6,936,683	
40 41 42	#ichgan	350,447 86 9,877,049	8,816 NA 123,587	341,631 NA 9,753,462	396,786 86 9,900,328	8,816 42 123,587	387,970 83 9,776,741	396,786 86 9,900,328	36,354 22 16,365	360,432 64 9,883,963	
43 44 45	Winnesota	307 10,560,808 590	1,244,237 NA	9,316,571 NA	307 11,045,146 590	1,251,377 1,377	9,793,769 487	307 11,045,146 590	370,380 197	147 10,674,766 393	
46 47 48	Missouri	3,040,607 425 3,097,316	249,368 NA 38,142	2,791,239 NA 3,059,174	3,354,500 425 3,670,629	252,407 36 45,839	3,102,093 402 3,624,790	3,354,500 425 3,670,629	435,318 111 167,964	2,919,182 314 3,502,665	
49 50 51	Montana	20 60,112	NA 10,456 NA	NA 49,656 NA	20 60,112	10,456	49,656 102	20 60,112 103	8,847 4	51,265 99	
52 53	Nevadanumber	739,220 2 41.521	41,306	697,914 NA 41,521	741,004 2 41,521	41,306	699,698 2 41,521	741,004 2 41,521	33,300	707,704 2 41,521	
54 55 56 57	New Jerseynumber acres	10,956	NA 4,850	NA 6,106 NA	10,956	7 4,850	6,106	10,956	4,650	6,306	
57 58 59	New Mexico	31,593	1,300 NA	30,293 NA	31,593	1,370	30,293 13	31,593 19	600	30,993 13	
60 61 62	North Carolinanumber acres	49,616 564 1,320,503	4,451 NA 254,482	45,165 NA 1,066,021	49,616 564 1,417,032	4,451 153 254,482	45,165 434 1,162,550	49,616 564 1,417,032	4,451 186 322,432	45,165 378 1,094,600	
63 64 65	North Paketa	1,641,183 142	NA 124,160 NA	1,517,023 NA	1,732,183 1,732	29 124,160 38	1,608,023 122	1,732,183 1,42	55,550 63	134 1,676,633 79	
66 67 68	Oklahoma	8,809,415 31 133,796	61,670 NA 18,584	8,747,745 NA 115,212	8,873,857 31 133,796	61,670 19 18,584	8,812,187 12 115,212	8,873,857 31 133,796	68,803 20 19,098	8,805,054 11 114,698	
69 70 71	Oregon	110 270,454	NA 79,585	NA 190,869	110 314,221	51 82,370	64 231,851	110 314,221	51 96,592 82	59 217,629 41	
71 72 73 74	South Carolinanumber acres South Paketsnumber	123 338,066 41	NA 108,787 NA	NA 229,279 NA	123 353,916 41	124,637 8	229,279 35	123 353,916 41	119,612	234,304	
74 75 76 77 78	acres Tennesseenumber acres	658,580 179 590,879	11,329 NA 98,054	647,251 NA 492,825	660,590 179 597,406	11,329 18 98,054	649,261 164 499,352	660,590 179 597,406	11,059 25 129,430	649,531 154 467,976	
	Texasnumber acres Utahnumber	5,691,130	NA 318,198 NA	NA 5,372,932 NA	5,938,974	103 327,376	5,611,598	5,938,974	110 194,260	5,744,714 8	
79 80 81	Virginienumber	66,910	520 NA	66,390 NA	66,910 66 101,976	520 37 56,497	66,390 36 45,479	66,910 66 101,976	1,040 38 63,717	65,870 28 38,259	
82 83 84	acres Washingtonnumber acres	92,778 122 241,182	51,971 NA 13,486	40,807 NA 227,696	101,976 122 242,482	17 13,486 36	112 228,996 209	101,976 122 242,482	18,587 18,587	108 223,895 203	
85 86 87	Wisconsinnumber acres Wyomingnumber	235 584,093 6	NA 47,649	NA 536,444 NA	588,863 6	47,649	541,214	588,863 6 23,833	55,549	533,314 6 23,833	
88	sores	23,833	ll	23,833	23,833	l	23,833	23,833		23,833	

Hairs indicate States identified in 1950 as "county-drain" States. The other States were designated "drainage-district" States. For the "county-drain" States in 1950 all drainage projects in each county were enumerated as a unit; therefore, the counts shown for that year represent the number of county reports. For 1940, 1930, and 1920, each drain was counted as separate project. See footnote 4 and text.

Boildage indicates States, other than "county-drain," for which the 1950 drainage data included drained lands in "irrigation enterprises," enumerated in the Census of Irrigation. See footnote 4 and text.

AN Not available.

Lend in two or more projects included only once.

*Lend in two or more projects included in each project. Areas shown equal the sum of areas of individual projects with no deduction for land included in more than one project.

DRAINAGE PROJECTS BY YEAR OF ORGANIZATION, CENSUSES OF 1920 TO 1960; BY STATES

					Drainage pro	jects by yea	r organized-	-Continued					
	1950 0	ensus³			1940 Census³			1930 Census ³			1920 Ce	neus 3	
All projects	Organized, 1940-1949	Organized before 1940	Year not reported*	All projects	Organized, 1930-1939	Organized before 1930	All projects	Organized, 1920-1929	Organized before 1920	All projects	Organized, 1910-1919	Organized before 1910	Year not reported
14,533 102,688,331	41,263 414,351,738	43,749 432,193,879	9,521 56,142,714	39,597 86,967,039	NA 5,966,247	NA 81,000,792	67,927 84,408,093	NA 10,716,605	NA 73,691,488	⁵ 56,949 65,495,038	NA 628,719,717	NA 936,545,774	NA 229,547
457 52,033,141	(4)	(4)	457 52,033,141	34,596 47,094,801	NA 3,209,164	NA 43,885,637	62,391 47,720,374	NA 3,828,049	NA 43,892,325	52,962 43,213,765	NA NA	NA NA	NA NA
14,076 50,655,190	1,263 14,351,738	3,749 32,193,879	9,064 4,109,573	5,001 39,872,238	NA 2,757,083	NA 37,115,155	5,536 36,687,719	NA 6,888,556	NA 29,799,163	3,228 22,281,273	NA NA	NA NA	NA NA
10,862 35,995,203	13,206,307	1,162 18,679,323 3	9,064 4,109,573	1,747 26,098,986	2,164,576	23,934,410 NA	2,119 23,043,464	4,151,246	NA 18,892,218	906 12,268,025	NA NA	NA NA	NA NA
76,671 25 197,268	40,735	35,936 2 3,385	23 193,883	28,045 5 298,633	NA	28,045 NA 298,633	7 318,931	NA 24,891	NA 294,040	39,640	NA (7)	NA (7)	NA (7)
844 4,701,095 2,047	32 130,269 21	235 4,476,359 142	94,467 1,884	250 4,592,738 158	109,297 NA	NA 4,483,441 NA	316 4,631,155 162	741,744 NA	NA 3,889,411 NA	3,479,591 145	NA 2,561,950 NA	NA 869,641 NA	NA 48,000 NA
2,554,576 630 623,976	53,454 3 12,190	1,400,083 48 292,174	1,101,039 579 319,612	2,667,194 56 468,322	42,723 NA 74,959	2,624,471 NA 393,363	2,233,714 58 366,719	479,954 NA 191,233	1,753,760 NA 175,486	1,108,319 24 171,656	566,114 NA 171,656	471,396	70,809
2 352,547 1,889	(4) (4) 131	(4) (4) 107	352,547 1,651	287 395,014	NA 114,382 NA	NA 280,632 NA	146	NA	 NA		 NA	 NA	
6,083,676 55 96,259	501,508 16 23,488	5,432,410 39 72,771	149,758	5,699,022 52 84,374	20,136	5,678,886 NA 84,374	5,954,934 59 84,255	516,448 NA 10,158	5,438,486 NA 74,097	1,637,073 46 65,452	1,630,103 NA 55,452	6,970 NA 10,000	
379 436,171 1,433	12 14,246 98	32 129,331 1,335	335 292,594	50 659,136	NA 28,665 NA	NA 630,471 NA	375,464 1 919	NA 70,435 NA	NA 305,029 NA	13 64,642 1,365	NA 64,642 NA	NA	NA.
5,370,825 79 11,017,709	238,919 (4) (4) (4) (4)	5,131,906 (4) (4) (4) (4) (4)	79 11,017,709	5,091,364 8,893 10,121,952	201,352 NA 879,594	4,890,012 NA 9,242,358	5,032,682 18,339 10,214,014	585,394 NA 658,505	4,447,288 NA 9,555,509	3,909,049 12,004 9,087,183	909,993 NA 2,220,090	2,988,033 NA 6,861,184	11,02: N/ 5,909
86 6,734,863 121	14	(4) (4) 70	86 6,734,863 37	3,180 6,164,344 88	NA 71,665 NA	NA 6,092,679 NA	10,214,014 3,730 6,137,649 88	620,617 NA	5,517,032 NA	2,883 5,224,478 54	3,077,143 NA	NA 2,134,524 NA	12,81
356,988 18 959,892	48,401 (4) (4)	306,688 (4) (4)	1,899 18 959,892	258,113 144 465,270	13,940 NA 18,584	244,173 NA 446,686	257,169 216 585,625	42,753 NA 152,470	214,416 NA 433,155	93,856 179 358,480	47,579 NA 243,743	46,277 NA 112,937	N/ 1,800
922 12,161,665 93	317 10,349,967	1,727,948	511 83,750	495 4,219,624	NA 555,502 NA	NA 3,664,122 NA	741 3,655,483	NA 954,414	2,701,069	2,266,328	NA 1,082,792	NA 1,183,536	
323,815 54 10,194,439	57,525 (4) (4) (4) (4)	266,290 (4) (4) (4) (4) (4)	54 10,194,439	183,337 7,692 8,978,386	125,865 NA 701,872	57,472 NA 8,276,514	10,640 9,180,851	 NA 844,770	NA 8,336,081	10,453 9,729,171	NA 3,435,274	 NA 6,273,912	N/ 19,985
82 11,269,962 441	(4) (4) 178	(4) (4) 263	11,269,962	2,498 10,990,409 271	NA 73,384 NA	NA 10,917,025 NA	2,885 11,474,683	NA 809,517 NA	NA 10,665,166 NA	2,340 9,232,709 167	NA 5,633,290 NA	NA 3,585,208 NA	N/ 14,211
3,023,744 318 3,147,484	263,245 14 46,380	2,760,499 304 3,101,104		2,890,618 286 3,087,063	47,483 NA 61,472	2,843,135 NA 3,025,591	2,988,496 367 3,150,022	1,113,630 NA 474,001	1,874,866 NA 2,676,021	1,601,444 238 2,596,204	1,341,552 NA 866,151	259,892 NA 1,723,317	N/ 6,736
404 289,189	15,338	21 84,354	377 189,497	34 372,661	NA 17,172	NA 355,489	27 167,629	NA 133,221	NA 34,408	17 168,682	NA 134,499	NA 21,533	12,650
473 821,088 82	60,062	129 657,729 5	319 103,297 77 123,059	125 916,181 8 153,373	NA 31,244 NA 11,678	NA 884,937 NA	138 879,459 7 162,980	NA 126,388 NA 47,956	NA 753,071 NA 115,024	123 607,730 1 15,940	NA 184,707 NA (7)	423,023 NA (7)	N/ (7
251,154 5 11,206	6,906	128,095 1 4,300	123,059	153,373	11,678	141,695	162,980	47,956 NA	115,024 NA	15,940	 NA		***
223 244,961 14		52,113	192,848	305,885	7,200	298,685	176,292	4,740	171,552	140,219	(⁷)	NA (7)	N/ (7)
56,465 413 1,128,509	26,963 190 281,679	29,502 223 846,830		246 825,576	NA 121,365	NA 704,211	130 679,236	NA 172,079	NA 507,157	104 542,828	NA 487,118	NA 55,710	
1,572,220 63	(4) (4) (4) (4) (4) (4)	223 846,830 (4) (4) (4) (4) (4) (4)	21 1,572,220 63 8,923,362	1,376,041 11,530	NA	NA 1,376,041 NA 6,404,904	1,094,142 26,191	NA 29,719 NA	NA 1,064,423 NA 7,784,986	137 1,240,328 24,871 8,107,204	365,274 NA	875,054 NA	NJ 2,356
8,923,362 18 300,884			18 300,884	7,729,267 29 197,646	1,324,363 NA 25,320	NA 172,326	8,165,494 33 170,158	380,508 NA 70,850	AN 808,99	5 12,150	943,200 NA (7)	7,161,648 NA (⁷)	N/ (7)
1,087 418,858 45	20,266 26	158,227 19	1,032 240,365	63 348,825 24	76,543	NA 272,282 NA	51 211,182 31	87,681 NA	NA 123,501 NA	4,000 17	NA (7) NA	(⁷)	NA (7)
249,011 34 707,263	68,076 (4) (4)	180,935 (4) (4)	34 707,263	204,366 202 676,472		204,366 NA 676,472	208,249 205 697,758	131,778 NA 261,093	76,471 NA 436,665	140,031 90 222,062	140,031 NA 162,616	NA 59,446	
151 615,838 543	22,590 38	132 593,248 59	440	601,592 81	NA 28,160 NA	573,432 NA	191 593,560 87	106,730 NA	NA 485,830 NA	95 363,671 54	NA 363,671 NA	NA	
5,794,786 471 302,158	1,965,642 8 7,884	3,355,505 28 142,309	473,639 435 151,965	4,218,850 36 202,058	1,158,388 NA 2,303	3,060,462 NA 199,755	2,883,356 32 156,052	516,632 NA 25,564	2,366,724 NA 130,488	2,166,128 17 113,823	1,272,147 NA 113,073	893,981 NA 750	
30 45,460 533	27 25,939 16	19,521 124	393	15,714 165	i i i	NA 15,714 NA	15,042 173	NA 11,738 NA	NA 3,304 NA	52	N.A.	 NA	N/
431,613 206 514,700	24,411 20 42,986	248,497 186 471,714	158,705	405,709 396 761,203	14,826 NA 6,810	390,883 NA 754,393	367,242 373 892,713	78,643 NA 131,802	288,599 NA 760,911	94,924 290 794,569	45,258 NA 329,526	43,166 NA 462,696	6,500 NA 2,341
189 325,981	2,669	17 84,116	170 239,196	25 312,662		NA 312,662	245,703	NA 108,549	NA 137,154	95,474	NA 95,474		

**Pland in two or more projects included only once. For 1950 and 1940, land in two or more projects included only for the project last organized; whereas, for 1930 and 1920, land in two or more projects included for the project first organized. The 1940, 1930, and 1940 reports also show, for the classification by year of organization, totals representing the sums of the sreas of individual projects without deduction for land included in more than one project. Number, for 1930 and 1920, refers to the number of reports and includes projects wholly superseded by later projects and, for intercounty projects, the reports for each county. See text.

**Tear of organization not obtained in 1950 for "irrigation enterprises" with drainage (from Census of Irrigation), or for "county-drain" States. See text.

**Pumber se shown on page 368 of the 1930 report; the sum of the numbers reported for the separate States equals 56,190.

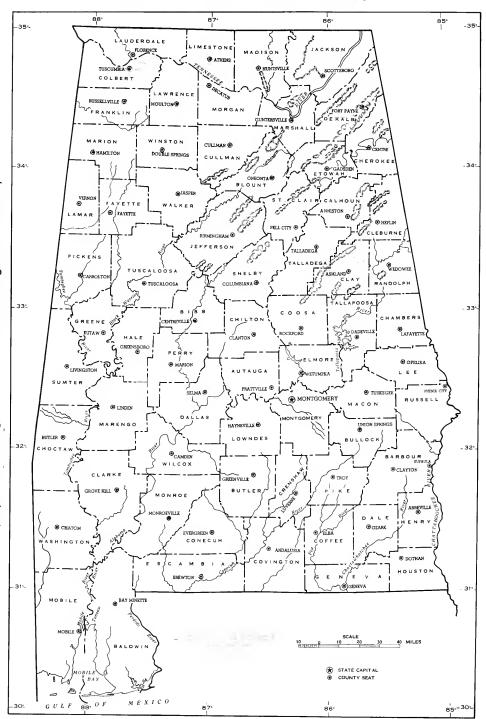
**Parts of organization of data reported by States.

**Posta for this and 4 other States not available individually but included in totals for all drainage States.

DRAINAGE MAPS

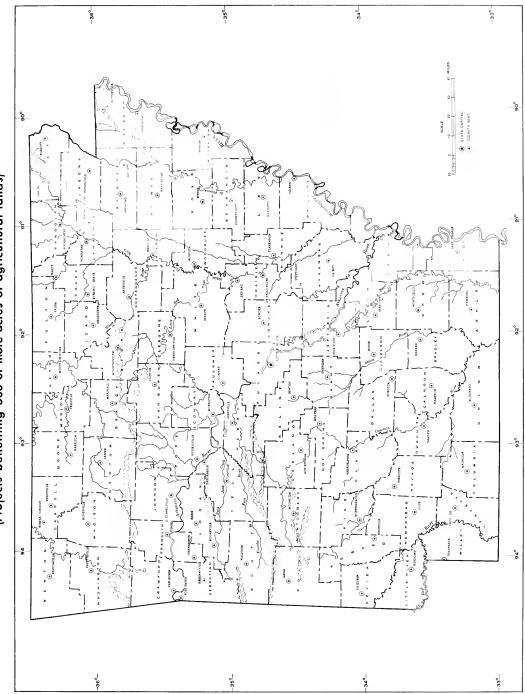
(31)

ALABAMA-LOCATION OF LAND IN DRAINAGE PROJECTS, 1960 (Projects benefiting 500 or more acres of agricultural lands)



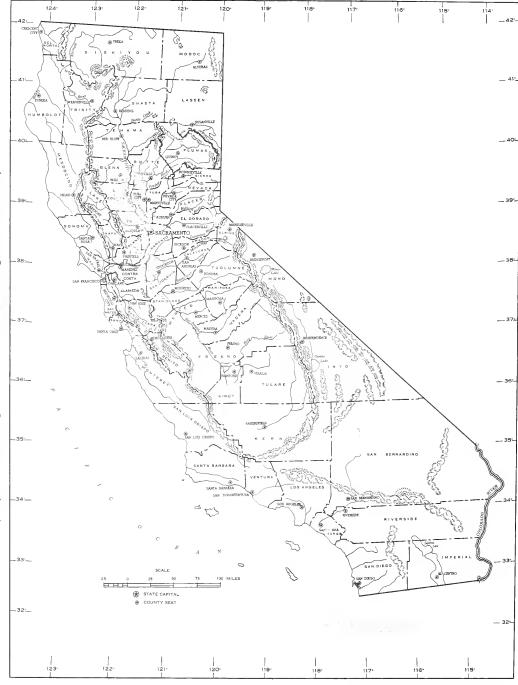
U.S. Deportment of Commerce, Bureou of the Census

ARKANSAS-LOCATION OF LAND IN DRAINAGE PROJECTS, 1960 (Projects benefiting 500 or more acres of agricultural lands)



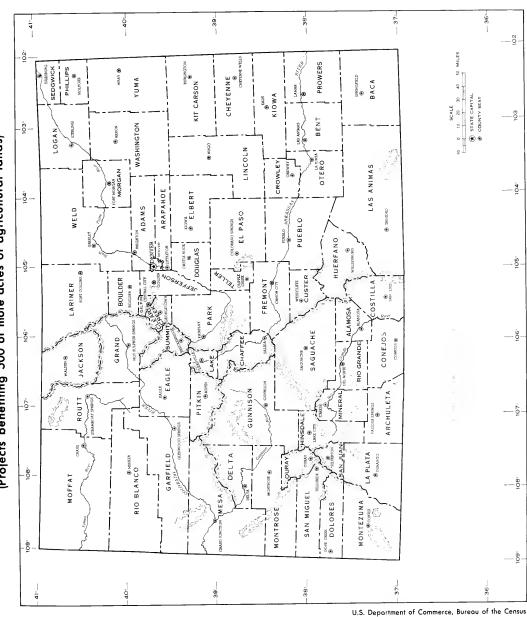
U.S. Department of Commerce, Bureau af the Census

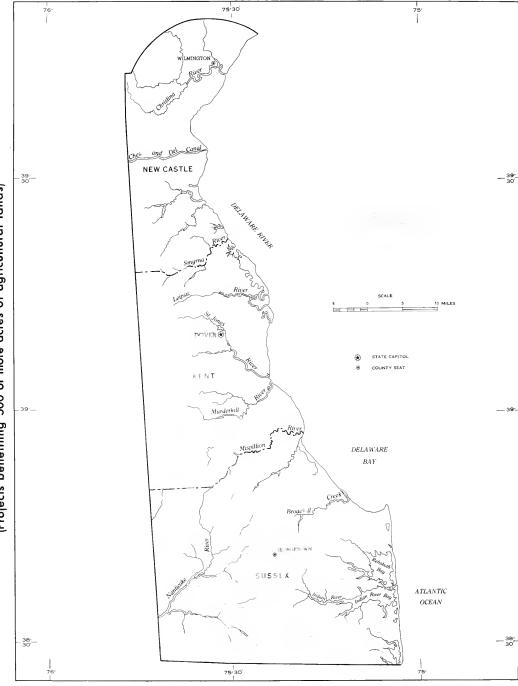




U.S. Department of Cammerce, Bureau of the Census

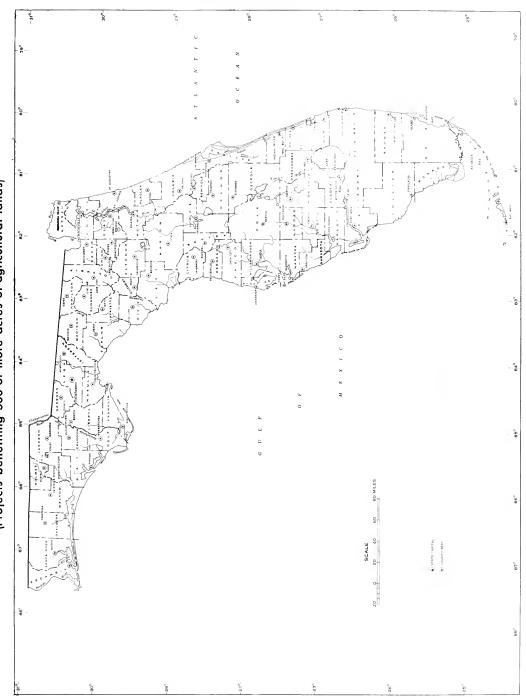
COLORADO-LOCATION OF LAND IN DRAINAGE PROJECTS, 1960 (Projects benefiting 500 or more acres of agricultural lands)





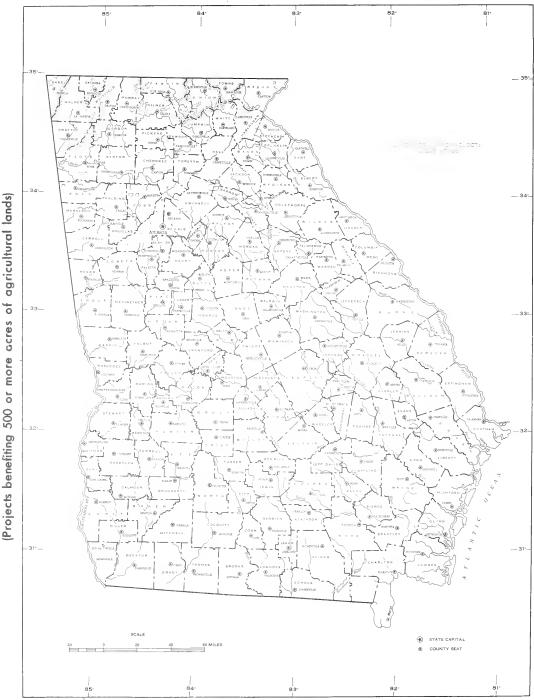
U.S. Department of Commerce, Bureau of the Census

FLORIDA-LOCATION OF LAND IN DRAINAGE PROJECTS, 1960 (Projects benefiting 500 or more acres of agricultural lands)



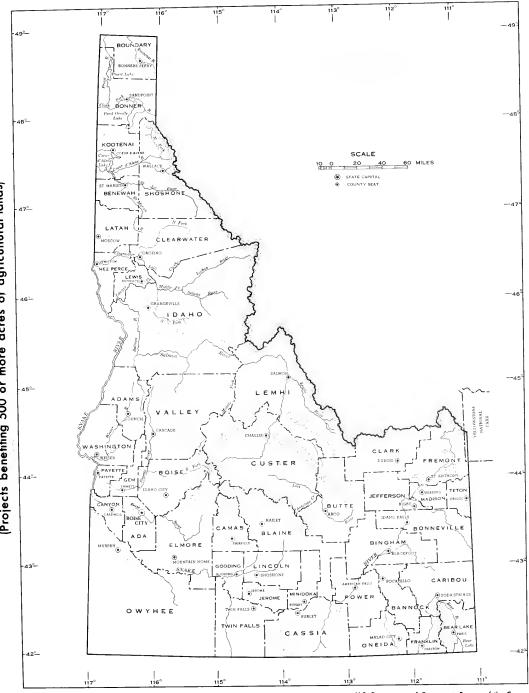
U.S. Department of Commerce, Bureau of the Census

GEORGIA-LOCATION OF LAND IN DRAINAGE PROJECTS, 1960



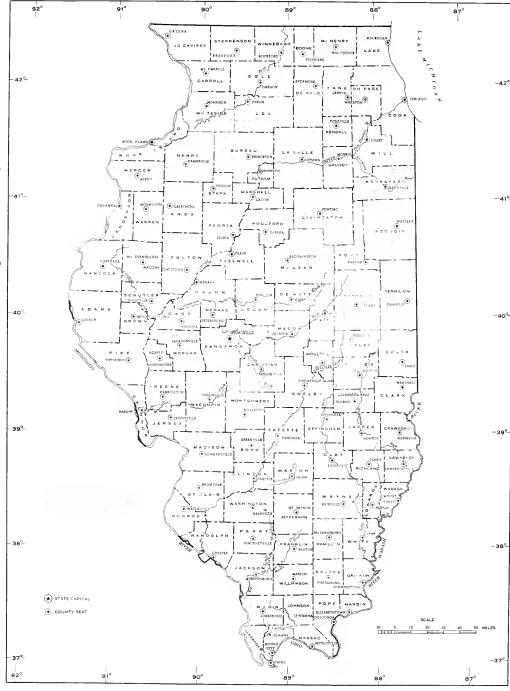
U.S. Deportment of Commerce, Bureau of the Census



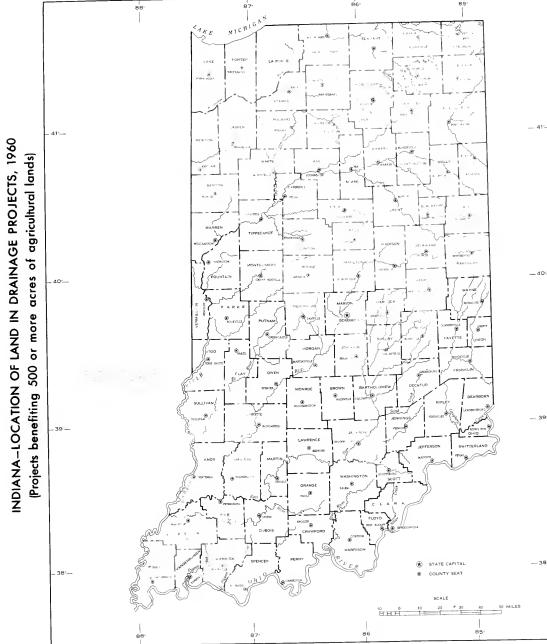


U.S. Department of Commerce, Bureau of the Census

ILLINOIS-LOCATION OF LAND IN DRAINAGE PROJECTS, 1960 (Projects benefiting 500 or more acres of agricultural lands)



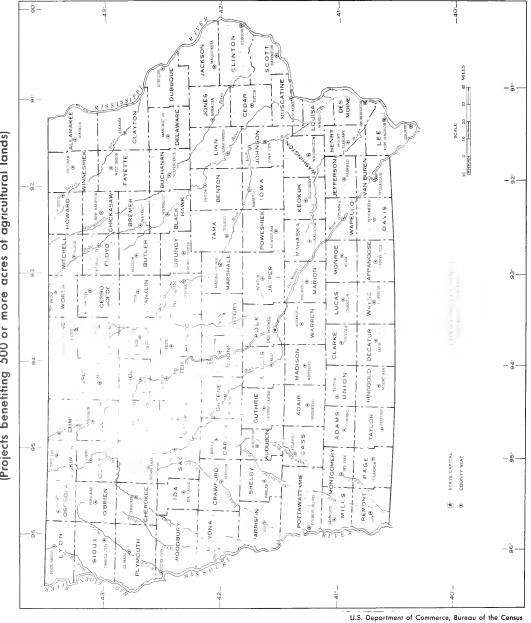
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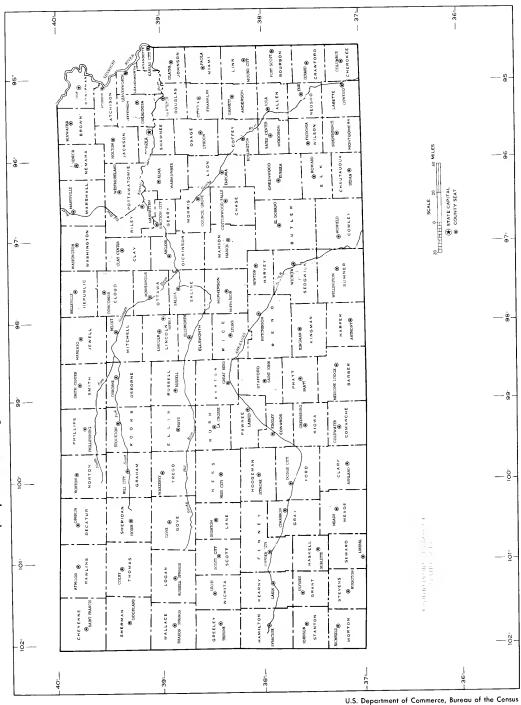
U.S. Department of Commerce, Bureou of the Census

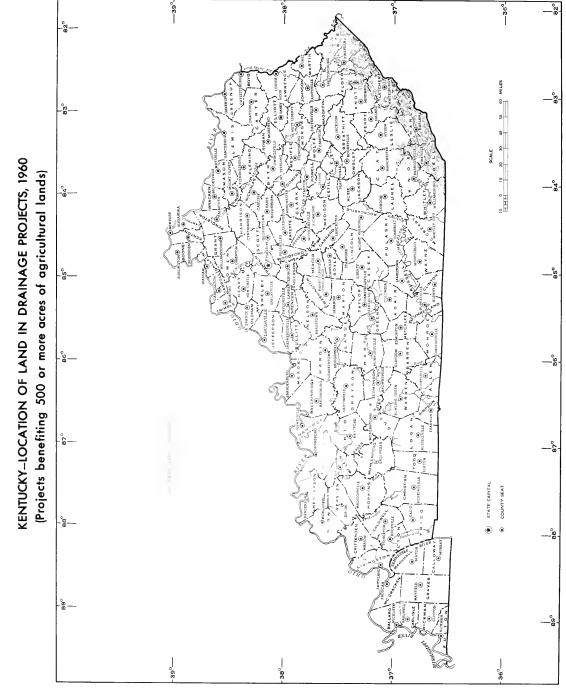
IOWA-LOCATION OF LAND IN DRAINAGE PROJECTS, 1960 (Projects benefiting 500 or more acres of agricultural lands)



KANSAS-LOCATION OF LAND IN DRAINAGE PROJECTS, 1960

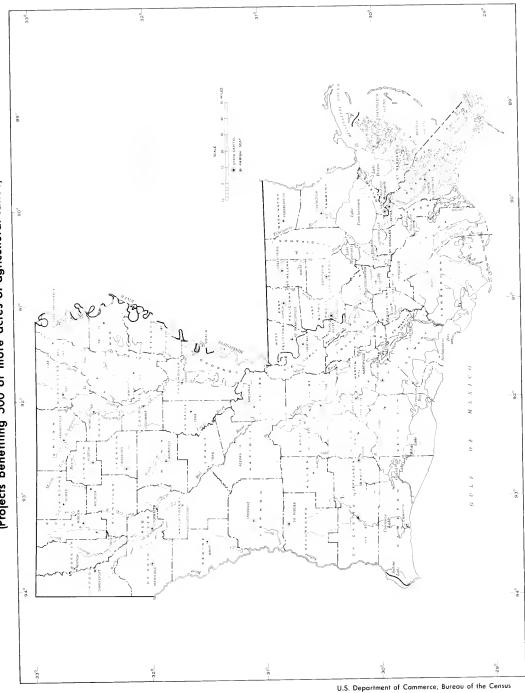
(Projects benefiting 500 or more acres of agricultural lands)



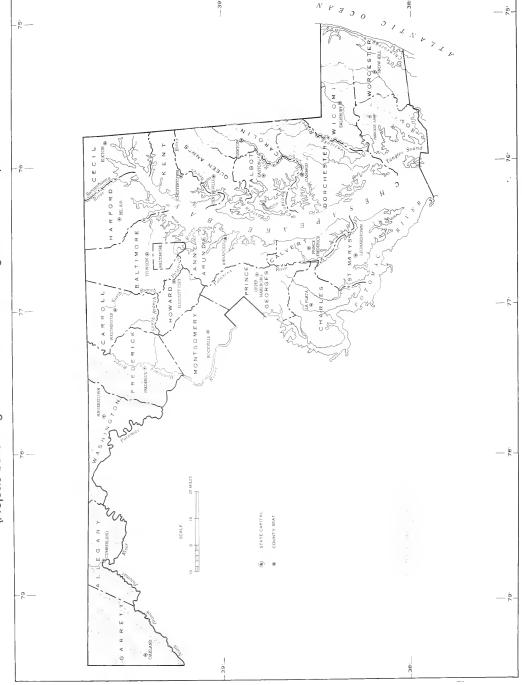


U.S. Department of Commerce, Bureau of the Census

LOUISIANA-LOCATION OF LAND IN DRAINAGE PROJECTS, 1960 (Projects benefiting 500 or more acres of agricultural lands)



MARYLAND_LOCATION OF LAND IN DRAINAGE PROJECTS, 1960 (Projects benefiting 500 or more acres of agricultural lands)



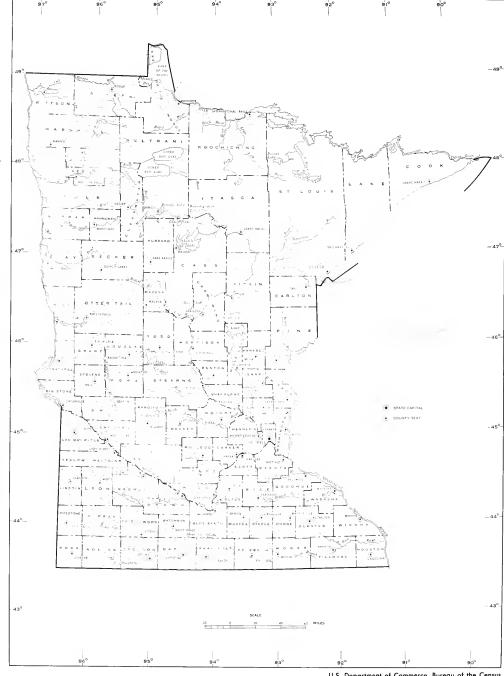
U.S. Deportment of Commerce, Bureau of the Census

MICHIGAN-LOCATION OF LAND IN DRAINAGE PROJECTS, 1960 (Projects benefiting 500 or more acres of agricultural lands)

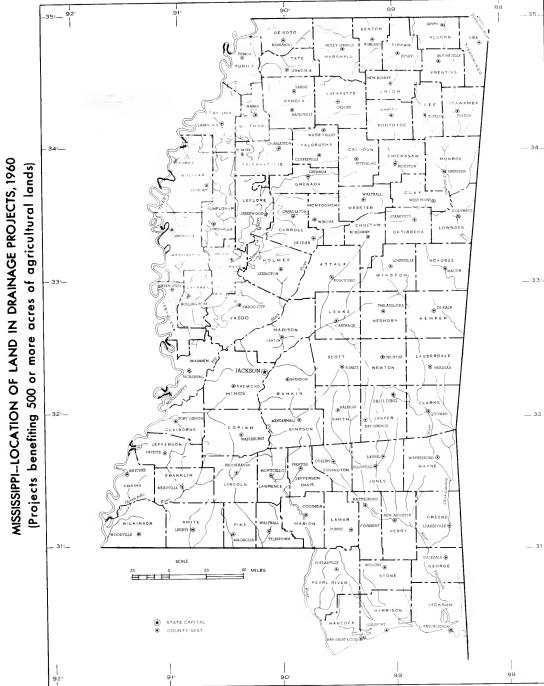


U.S. Department of Commerce, Bureou of the Census

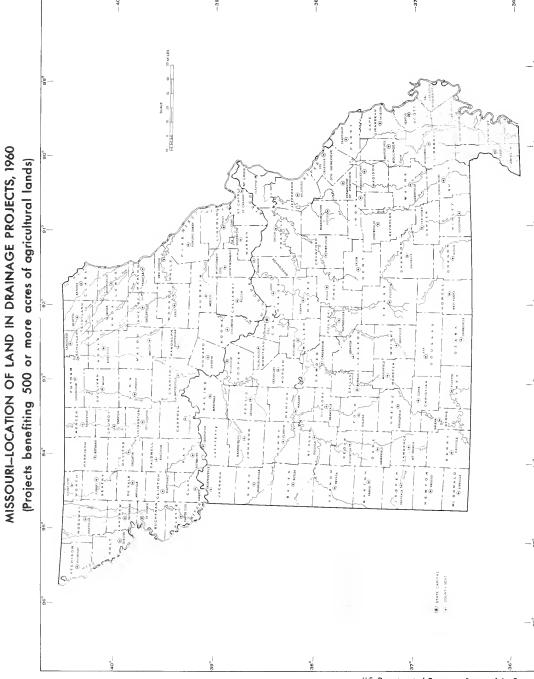
MINNESOTA-LOCATION OF LAND IN DRAINAGE PROJECTS, 1960 (Projects benefiting 500 or more acres of agricultural lands)



U.S. Department of Commerce, Bureau of the Census

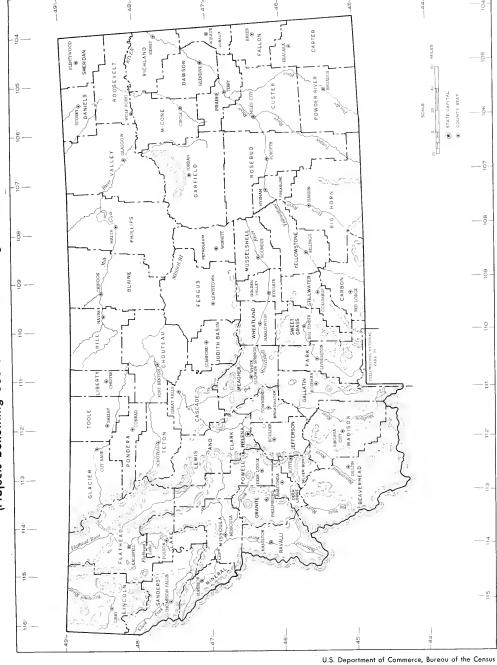


U.S. Deportment of Commerce, Bureau of the Census

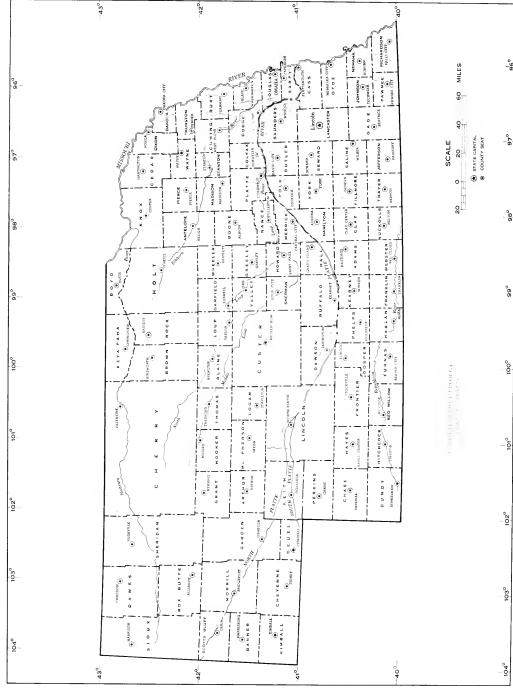


U.S. Department of Commerce, Bureau of the Census

MONTANA_LOCATION OF LAND IN DRAINAGE PROJECTS, 1960 500 or more acres of agricultural lands) (Projects benefiting

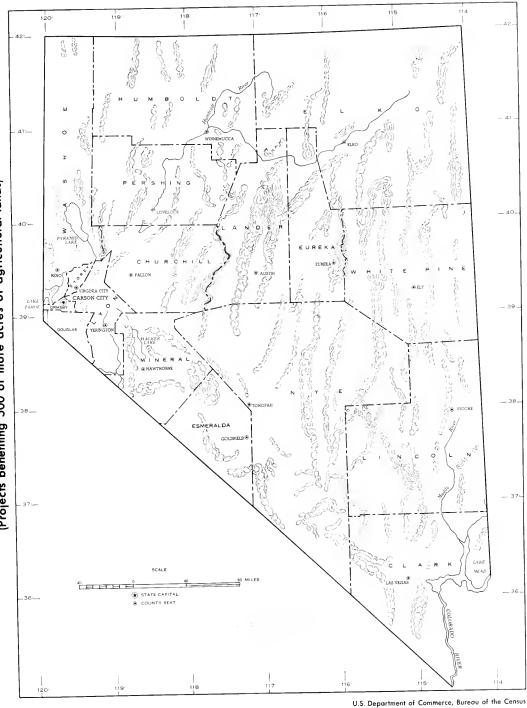


NEBRASKA-LOCATION OF LAND IN DRAINAGE PROJECTS, 1960 (Projects benefiting 500 or more acres of agricultural lands)

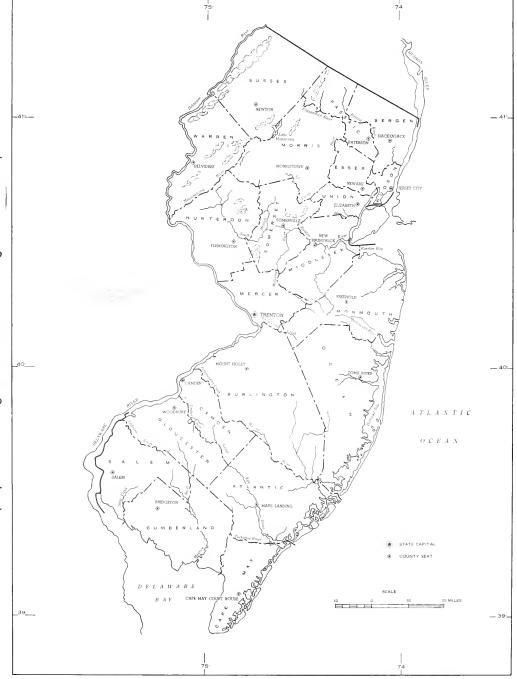


U.S. Department of Commerce, Bureou of the Census

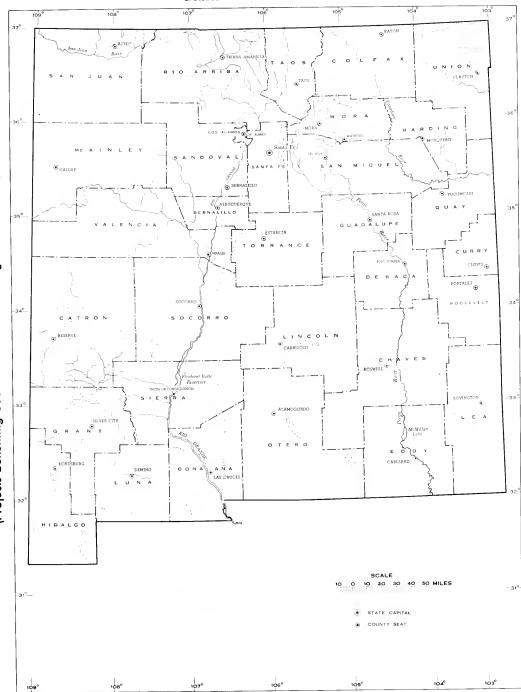
NEVADA_LOCATION OF LAND IN DRAINAGE PROJECTS, 1960 (Projects benefiting 500 or more acres of agricultural lands)



NEW JERSEY_LOCATION OF LAND IN DRAINAGE PROJECTS, 1960 (Projects benefiting 500 or more acres of agricultural lands)



U.S. Department of Commerce, Bureau of the Census

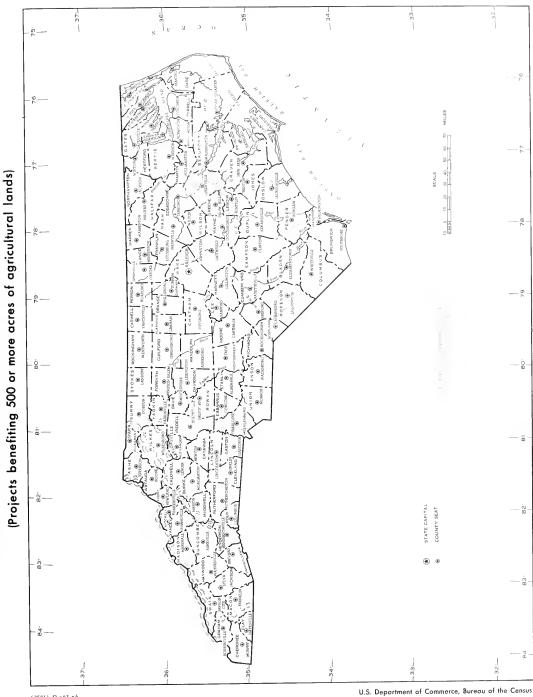


U.S. Department of Commerce, Bureau of the Census

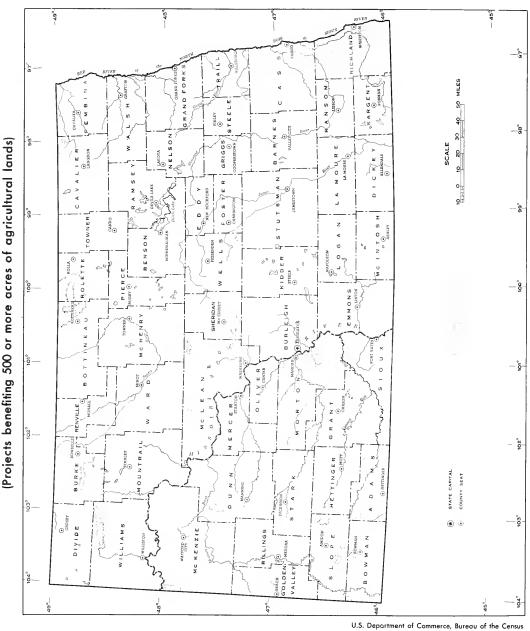
NEW YORK-LOCATION OF LAND IN DRAINAGE PROJECTS, 1960 (Projects benefiting 500 or more acres of agricultural lands)

U.S. Deportment of Commerce, Bureau af the Census

NORTH CAROLINA-LOCATION OF LAND IN DRAINAGE PROJECTS, 1960



NORTH DAKOTA-LOCATION OF LAND IN DRAINAGE PROJECTS, 1960

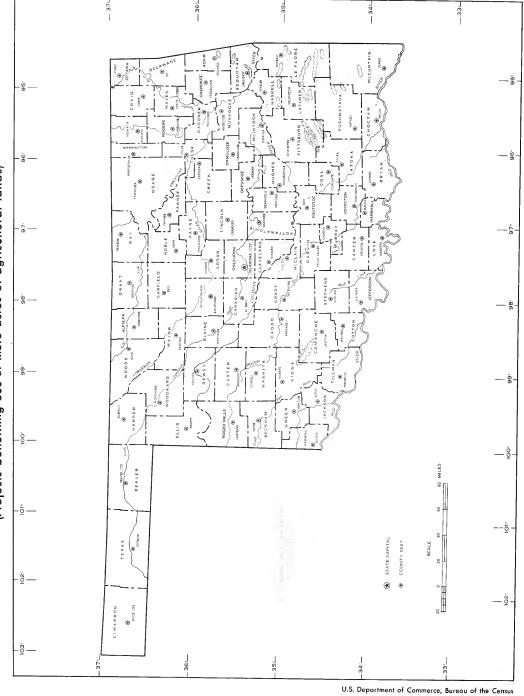


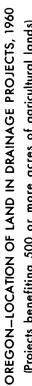
OHIO-LOCATION OF LAND IN DRAINAGE PROJECTS, 1960 (Projects benefiting 500 or more acres of agricultural lands)

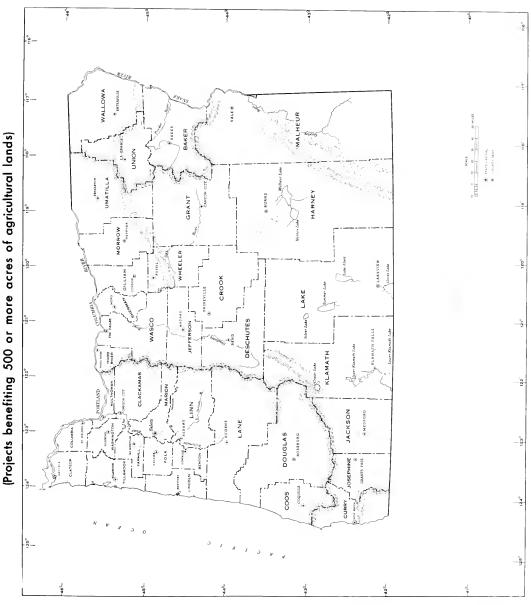


U.S. Department of Commerce, Bureau of the Census

OKLAHOMA-LOCATION OF LAND IN DRAINAGE PROJECTS, 1960 (Projects benefiting 500 or more acres of agricultural lands)

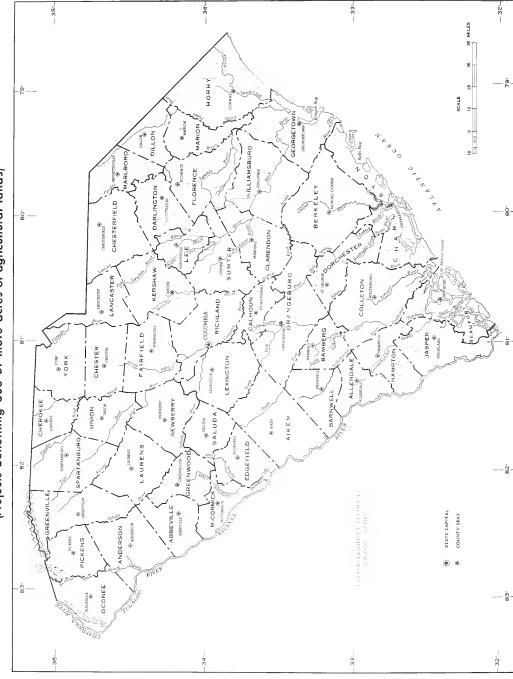






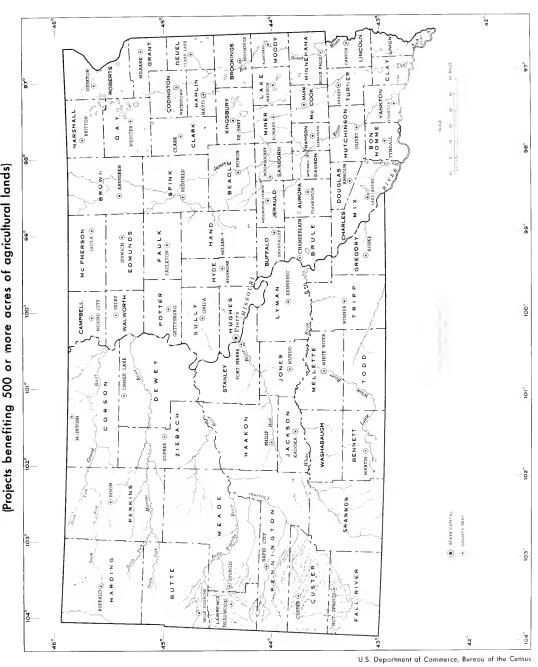
U.S. Department of Commerce, Bureou of the Census

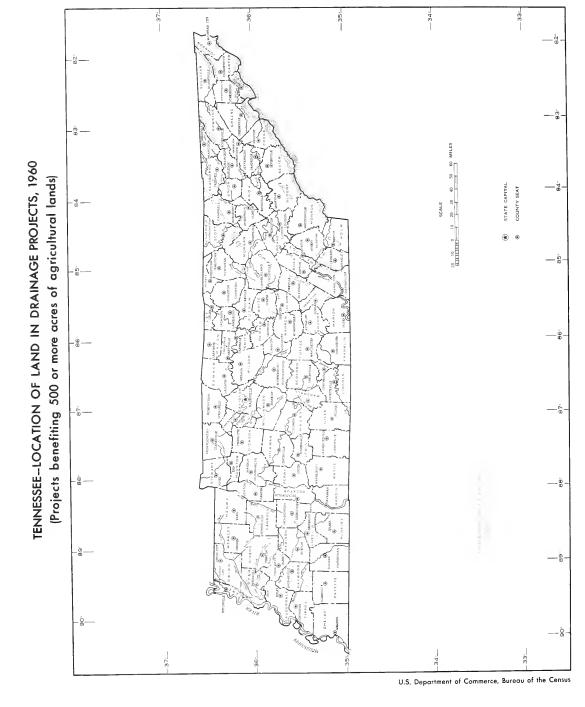
SOUTH CAROLINA-LOCATION OF LAND IN DRAINAGE PROJECTS, 1960 (Projects benefiting 500 or more acres of agricultural lands)



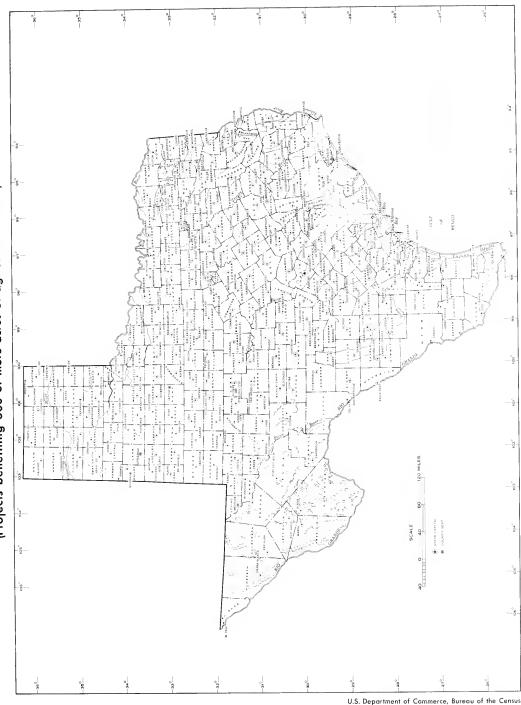
U.S. Deportment of Commerce, Bureau of the Census

SOUTH DAKOTA-LOCATION OF LAND IN DRAINAGE PROJECTS, 1960

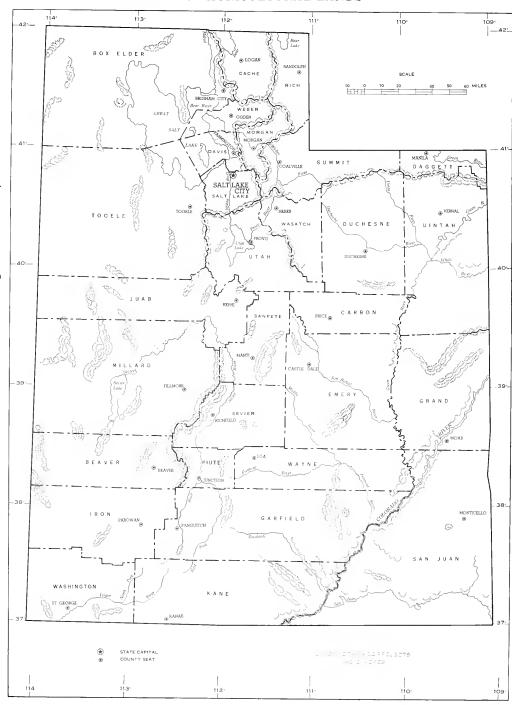




TEXAS_LOCATION OF LAND IN DRAINAGE PROJECTS, 1960 (Projects benefiting 500 or more acres of agricultural lands)

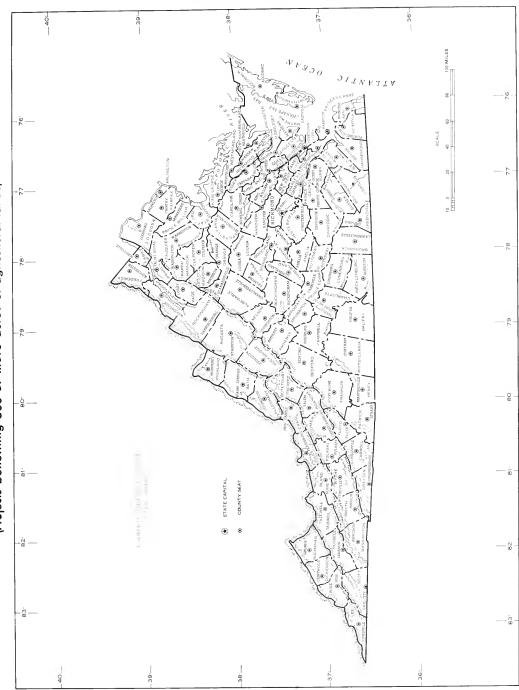


UTAH-LOCATION OF LAND IN DRAINAGE PROJECTS, 1960 (Projects benefiting 500 or more acres of agricultural lands)



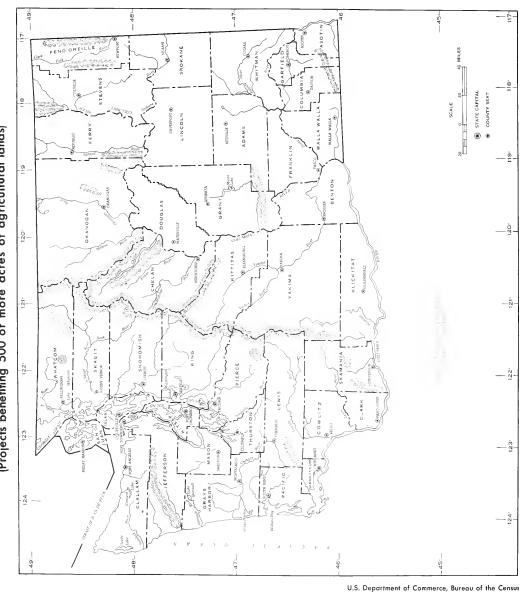
U.S. Deportment of Commerce, Bureau of the Census

VIRGINIA_LOCATION OF LAND IN DRAINAGE PROJECTS, 1960 (Projects benefiting 500 or more acres of agricultural lands)



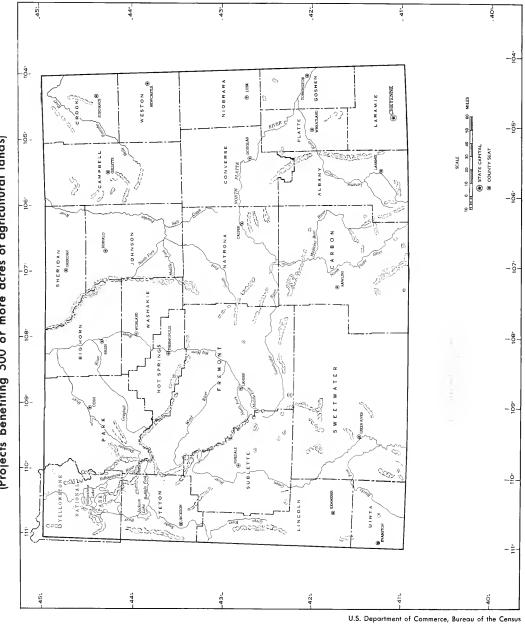
U.S. Department of Cammerce, Bureau of the Census

WASHINGTON-LOCATION OF LAND IN DRAINAGE PROJECTS, 1960 (Projects benefiting 500 or more acres of agricultural lands)





WYOMING-LOCATION OF LAND IN DRAINAGE PROJECTS, 1960 (Projects benefiting 500 or more acres of agricultural lands)



STATISTICS FOR STATES

(71)

State Table 1. – DRAINAGE PROJECTS – NUMBER, AREA, COST, AND WORKS, 1920 TO 1960

See text for comparability of data

[care	text for comparability of dat	Lin j			
Item	1960 Census	1950 Census	1940 Census	1936 Census	1420 Census
AREA					
Approximate land areaacres	32,678,400	32,689,920	32,689,920	32,818, 60	37,818,56
Land in farms	16,542,730	:0,480,784	19,143,391	17, -4,63	11, 21,21
Drainage projectsnumber	11	10	1	, , , , , , , , , , , , , , , , , , , ,	.,.,.
Total area in drainage projects	69,901	7t,67l	28.049		
Area not used for agriculture or not drained	.,000	IIA.	í		
Net area drained and used for agriculture	6,001	HA	128,645		
Drainage established 10 years or more before Census date	64,851	IIA.	DA.		
Drainage established within 10 years of Census dateacres served	1,050	IIA	11A		
Area served by two or more projects					
PROJECTS BY TYPE OF ORGANIZATION					
Drains owned by one landowner					
acres served	1 500	***	•••		••
Cooperative or mutual drains	6	7			
acres served	33,74:	40,735	•••		
Legally organized public drains	33,74.	40,730	1		
acres somed	31,656	31,936	28,045		••
W.165 - 44160 11	51,000	,,,,,	,04.		
PROJECTS BY YEAR STARTED			,		
Started 10 years or more before Census date	10	3	1		
acres served	65,401	35,936	22,045		
Started within 10 years of Census date	1	7		•••	
acres served	500	40,73			
OPERATIONS, 10-YEAR PERIOD PRECEDING CENSUS DATE					
Cost of drainage works and servicesprojects reporting	6	8	IIA.		
dellars	31,061	70,223	MA		
New drainage works constructed, enlarged, or installed projects reporting	4	27	1IA		
cost, dollars	25,512	252,768	A21		
Open ditches projects reporting	4	7	IIA		
length, miles	15.3	66	11A		
Tile or covered drains			NA		
length, miles			1IA		
Levees or dikes			'iA		
length, miles			All		
Pumpsprojects reporting		11A	A.I.		
number of pumps		IIA	Alf		
Other (see text) projects reporting		IIA	AI:		
Cost of maintenance, operation, repair, and administration	5	AH	HA		
dollars	,249	11,45°	HA.		
STATUS ON CENSUS DATE				1	
Capital investmentdollars	NA.	All	-10,000		
Physical works:			, , , , ,		•••
Open ditches length, miles	NA	NA	42.3		
Trie drains	NA.	NA :			
Levees and dikes	IIA.	11A			
Pumping unitsnumber of units	NA				

MA Not available.

Not fully comparable. See text.

Cost of new works for lands not previously drained.

State Table 2.-DRAINAGE

	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
Size of project (Based on area of agricultural land in project)		Total (acres)	Served by two or more projects (acres)	Before 1950		Area added 1950-1959	
				Projects reporting	Acres	Projects reporting	Acres
All projects.	11	65,901		10	64,851	4	1,05
500 to 999 acres.	6	3,749		5	2,699	4	1,05
1,000 to 1,999 acres							
2,000 to 4,999 acres	3	11,271		3	11,271		
5,000 to 9,999 acres							
10,000 to 19,999 acres							
20,000 to 49,999 acres	2	50,881		2	50,881		
50,000 to 99,999 acres							
100,000 or more acres							

State Table 3.-DRAINAGE PROJECTS, 1960,

	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
Type of organization		Total	Served by two	Before 1950		Area added 1950-1959	
		(acres)	projects (acres)	Projects reporting	Acres	Projects reporting	Acres
All projects.	11	65,901		10	64,851	4	1,050
Drains owned by one landowner	1	500				1	500
Cooperative or mutual drains	6	33,74		6	33,195	3	550
Legally organized public drains	4	31,656		4	31,656		•••

State Table 4.-DRAINAGE PROJECTS, 1960,

		Area drained and used for agriculture, 1960		Area by period drainage was established			
Year of organization	Number of projects		Served by two	Before 1950		Area added 1950-1959	
	projects	Total (acres)	or more projects (acres)	Projects reporting	Acres	Projects reporting	Acres
All projects	11	65,901		10	64,851	4	1,05
1950-1959	1	500				1	50
Prior to 1950	10	65,401		10	64,851	3	55

PROJECTS, 1960, BY SIZE

0000 01 01	rainage works	and beivices,	19,00-19,99			New Works	onstructed, e	mlarged, or is	nstalled, 195	0-1959		
Tot	tal	For new	works	Open di	tches	Tile or cove	red drains	Levees a	nd dikes	Fum	os	ther,
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number	projects reporting
6	31,061	4	25,812	4	15.3							
4	27,512	4	25,812	4	15.3							
1	2,809											
1	740											

BY TYPE OF ORGANIZATION

Cost of d	rainage works	and services,	1950-1959			New works	constructed, e	enlarged, or	installed, 195	0-1959		
To	tal	For new	works	Open d	itches	Tile or cove	red drains	Levees a	and dikes Fu		s	Other,
Projects reporting	Dollars	Frojects reporting	Dollars	Frojects reporting	Length (miles)	Frojects reporting	Length (miles)	Projects reporting	Length (miles)	Frojects reporting	Number	projects reporting
6	31,061	4	25,812	4	15.3							,.,
1	5,912	1	5,312	1	2,3							
3	21,600	3	20,500	3	13.0							
2	3,549	• • •										

BY YEAR OF ORGANIZATION

Cost of d	Irainage works	and services,	1950-1959			New works	onstructed, e	nlarged, or i	nstalled, 195	0-1959		
To	otal	For nev	w works	Open di	i tches	Tile or cove	red drains	Levees a	nd dikes	Pur	mps	Other,
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (mailes)	Projects reporting	Length (miles)	Frojects reporting	Length (miles)	Projects reporting	Number	projects reporting
6	31,061	4	25,812	4	15.3							
1	1,912	1	1,312	1	2.3							
5	25,149	3	20,500	3	13.0							

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

	Item and Census year	Tho State	Clay	Colbert	Fayette	Hale	Lamar	Madison	Marengo	Marion	Marshall	Mobile	Perry	Tusca- loosa
ľ	AREA													
1	Approximate land areaacres 1960	32,678,400	385,920	394,240	401,280	424,320	387,200	513,920	625,280	475,520	365,440	794,880	469,760	857,60
2	Land in farmsacres 1959	16,542,730	130,071	207,874	190,787	275,60~	168,897	370,067	371,151	205,076	219,018	186,699	286,471	263,2
3	Drainage projectsnumber 1960	11	1	1	1	1	1	1	ż	1	2	1	1	
4	1950	10	1		1	1	2	1	2	1	2		1	
5	Total area in drainage projects 1 acres served 1960	69,901	849	3,400	14,040	11,596	1,000		15,680	3,911	1,400	500	3,720	5
3	1950	76,671	599		14,045	11,596	1~,980	500	15,680	3,911	1,100		3,720	7,:
1	Area not used for agriculture or not drained scres served $1960\ldots$	~y000					4,000							
3	Net area drained and used for agriculture \dots acres served $1960\dots$	é5,901	849	3,200	14,045	11,596	10,000	500	15,680	3,911	1,400	500	3,720	:
9	Drainage established before 1950 acres served 1960	(4,851	599	3,400	14,345	11,596	10,0.0	500	15,680	3,911	1,100		3,720	:
	Area added, 1950-1959 acres served 1960	1,050	250								300	500		
ı	Area served by two or more projects , , acres served $1960\ldots$													
	PROJECTS, 1960, BY TYPE OF ORGANIZATION													
2	Drains owned by one landowner number of projects	1										1		
ł	acres served ²											500		
	Cooperative or mutual drainsnumber of projects		1			1		1	2		2		1	
l	acres served ²	33,745	99			11,596		500	15,630		1,400		3,720	
ŀ	Legally organized public drains number of projects	4		1	1		1			1				
	acres served ²	31,656		3,.0.	14,045		10,000			3,911				
ĺ	PROJECTS, 1960, BY YEAR STARTED													
	1950-1959number of projects	1										1		
	acres served ²	500										500		
1	Prior to 1950number of projects	10	1	1	1	1	1	1	2	1	2		1	
	acres son ed ²	75,41	849	1,- "	1+y 3+f	11,59e	10,000	500	15,680	3,911	1,400		3,720	
	DRAINAGE OPERATIONS, 1950-1959 ³													
ŀ	Cost of drainage works and servicesprojects reporting		1.	1	1		1				2	1		
	dollars	31, ./1	11,100								10,500	5,912		
-	New drainage works constructed, enlarged, or installed	4	1								į.	1		
-	dollars	25,912	11,000								9,500	5,312		
1	Open ditchesprojects reporting	4	1									1		
	length, miles	1 .3	5.0								8.0	2.3		
	Tile or covered drainsprojects reporting													
	length, miles													
	Levees or dikesprojects reporting													
	length, miles													
	Pumpsprojects reporting													
	number of pumps													
	Other (see text)projects reporting													
1	Cost of maintenance, operation, repair, and administrationprojects reporting		1	1	1		1				1	1		
			100	2,039							1,000	600		

liand served by two or more projects counted only once.

Acres served by two projects are included for each project. See text.

Includes projects taken over by another project prior to 1960. See text.

State Table 1. – DRAINAGE PROJECTS-NUMBER, AREA, COST, AND WORKS, 1920 TO 1960

[See text for comparability of data]

566	text for comparability of da	ta j			
ltem .	1960 Census	1950 Census	1940 Census	1930 Census	1920 Census
AREA					
Approximate land area	33,599,360	33,712,000	33,744,000	33,616,000	33,616,00
Land in farms	16,458,515	18,871,244	18,044,542	16,052,962	17,456,75
Drainage projects	598	844	250	NA.	N
Total area in drainage projects	4,870,106	4,701,095	4,592,738	4,631,155	3,479,59
Area not used for agriculture or not drained	189,140	NA.	NA.	NA.	. ,
Net area drained and used for agriculture	4,680,966	NA.	¹ 3,100,342	12,940,035	N
Drainage established 10 years or more before Census date	4,447,703	NA.	NA NA	NA NA	N
Drainage established within 10 years of Census date	233,263	NA.	NA.	NA.	N
Area served by two or more projectsacres served	917,881	629,514	1,040,561	1,133,653	363,22
	,				
PROJECTS BY TYPE OF ORGANIZATION					
Drains owned by one landownernumber of projects	167	² 15	NA.	NA.	N
acres served	236,104	²67,790	84,358	40,660	26,90
Cooperative or mutual drainsnumber of projects	202	² 23	•••	•••	
acres served	276,463	² 32,398			
Legally organized public drainsnumber of projects	229	² 229	NA.	NA NA	N
acres served	5,252,771	²4,506,440	4,508,380	4,590,495	3,452,69
PROJECTS BY YEAR STARTED					
Started 10 years or more before Census date	260	² 235	NA.	NA.	N
actes served	4,991,384	² 4,476,359	4,483,441	3,889,411	³ 869,64
Started within 10 years of Census datenumber of projects	338	² 32	NA.	NA NA	N
acres served	773,954	2130,269	109,297	741,744	³ 2,561,95
OPERATIONS, 10-YEAR PERIOD PRECEDING CENSUS DATE					
Cost of drainage works and services projects reporting	471	²127	NA.	NA NA	N
dollars	20,488,226	5,540,041	NA.	NA NA	N
New draunage works constructed, enlarged, or installed	352	428	NA.	NA NA	N
cost, dollars	9,044,351	4391,898	NA.	NA NA	N
Open ditches. projects reporting.	347	29	NA.	NA NA	N
length, miles	1,796.0	123	NA.	NA NA	N
Tile or covered drains projects reporting			NA.	NA NA	N
length, miles			NA.	NA.	N
Levees or dikes projects reporting	9	4	NA.	NA NA	N
length, miles	27.8	15	NA.	NA .	N
Pumps projects reporting	3	NA.	NA.	NA.	N
number of pumps	4	NA NA	NA.	NA NA	N
Other (see text) projects reporting		NA.	NA.	NA NA	N
Cost of maintenance, operation, repair, and administration	169	NA.	NA NA	NA NA	N
dollars	11,443,875	5,148,143	NA.	NA.	N
STATUS ON CENSUS DATE					
STATUS ON CENSUS DATE Capital investment	NA.	NA.	39,450,754	37,532,575	14,147,17
Physical works:	101	101	.,,		
Open ditcheslength, miles	NA NA	NA.	6,030.3	4,974.3	3,154.
Tile drains length, miles	NA NA	N/A	10.8	0.1	20.
Levees and dikeslength, miles	NA	NA.	332.4	201.9	121
Pumping unitsnumber of units	NA.	² 5	5	5	

NA Not available.
Not rully comparable. See text.
31900 figures exclude 577 projects and 94,467 acres in "irrigation enterprises."
31920 figures exclude 48,000 acres for which date of organization was not reported.
**Cost of new works for lands not previously drained.

State Table 2.-DRAINAGE

				ed and used lture, 1960	Are	a by period drain	age was establish	ed
	Size of project (Based on area of agricultural land in project)	Number of projects		Served by two	Befor	re 1950	Area added	1950-1959
	(10000000000000000000000000000000000000		Total (acres)	or more projects (acres)	Projects reporting	Acres	Projects reporting	Acres
1	All projects	598	5,765,338	2,002,253	484	5,529,817	151	235, 521
2	500 to 999 acres	230	150,233	80,415	165	101,004	81	49,229
3	1,000 to 1,999 acres	109	144,769	72,486	83	105,997	34	38,772
4	2,000 to 4,999 acres	76	238,843	59,541	59	175,702	23	63,141
5	5,000 to 9,999 acres	60	439,295	84,055	55	383,562	10	55,733
6	10,000 to 19,999 acres	54	776,548	208,856	53	747,902	3	28,646
7	20,000 to 49,999 acres	45	1,388,425	228,142	45	1,388,425		
8	50,000 to 99,999 acres	12	778,208	201,802	12	778,208		
9	100,000 or more acres	12	1,849,017	1,066,956	12	1,849,017		

State Table 3.-DRAINAGE PROJECTS, 1960,

		Area drained for agricul		Area	by period draina	ge was established	ı
Type of organization	Number of projects	Total	Served by two	Before	1950	Area added 1	950-1959
	projectos	(acres)	or more projects (acres)	Projects reporting	Acres	Projects reporting	Acres
All projects.	598	5,765,338	2,002,253	484	5,529,817	151	235,52
Drains owned by one landowner	167	236,104	140,864	120	174,323	62	61,7
Cooperative or mutual drains	202	276,463	105,237	139	147,174	82	129,2
Legally organized public drains	229	5,252,771	1,756,152	225	5,208,320	7	44,4

State Table 4.-DRAINAGE PROJECTS, 1960,

		Ares draine for agricul		Are	a by period drain	age was establish	ed	
Year of organization	Number of projects		Served by two	Befor	e 1950	Area added	1950-1959	
	projects	Total (acres)	or more projects (acres)	Projects reporting	Acres	Projects reporting	Acres	
1 All projects	598	5,765,338	2,002,253	484	5,529,817	151	235,521	
2 1950-1959	338	773,954	438,490	224	542,933	148	231,021	
3 Prior to 1950	260	4,991,384	1,563,763	260	4,986,884	3	4,500	

PROJECTS, 1960, BY SIZE

							onstructed, e					
To	tal	For new	works	Open d	itches	Tile or cove	red drains	Levees a	nd dikes	Pum	ps	ther.
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number	projects reporting
471	20,488,226	352	9,044,351	347	1,796.0			9	27.8	3	4	
214	679,067	205	648,914	205	525.9			3	3.8	1	2	
89	566,556	83	532,268	83	306.7							
49	566,238	34	396,718	33	161.8			1	6.0			
33	933,089	17	449,440	15	137.2			3	12.5		, , ,	
32	1,968,781	8	616,231	6	109.2			2	5.5	1	1	
33	4,361,112	1	477,000	1	300.0							
9	1,571,221	1	189,750	1	54.3							
12	9,842,162	3	5,734,030	3	200.9					1	1	

BY TYPE OF ORGANIZATION

Cost of d	rainage works	and services,	1950-1959			New works	constructed, e	enlarged, or	installed, 19	0-1959		
To	tal	For new	works	(pen d	itches	Tile or cover	red drains	Levees a	und dikes	Fump	s	Other,
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Project: reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number	projects reporting
471	20,488,226	352	9,044,351	347	1,796.0			9	27.8	3	4	,,,
164	2,229,404	157	1,386,737	157	1,045.1			1	1.5	1	2	
183	822,130	173	794,557	173	382.4			2	2.3			
124	17,436,692	22	6,863,057	17	368.5			6	24.0	2	2	

BY YEAR OF ORGANIZATION

Cost of d	irainage works	and services,	1950-1959			New works	constructed, e	nlarged, or i	nstalled, 195	0+1959		
To	otal	For new	w works	Open di	itches	Tile or cove	ered drains	Levees a	nd dikes	Fui	mps	Other,
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Frojects reporting	Length (miles)	Frojects reporting	Number	projects reporting
471	20,488,226	352	9,044,351	347	1,796.0			9	27.8	3	4	
338	9,195,066	326	7,908,320	325	1,262.0			5	10.3	1	2	
133	11,293,160	26	1,136,031	22	534.0			4	17.5	2	2	

County Table 1. - DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

Item and Census year	The State	Arkansas	Ashley	Chicot	Clark	Clay	Conway	Craighead
AREA								
1 Approximate land area	33,599,360	662,400	597,120	414,080	561,920	409,600	358,400	458,880
2 Land in farmsacres 1959	16,458,515	449,712	164,831	282,670	180,332	297,242	235,834	372,953
9 Drainage projectsnumber 1960	598	19	10	57	1	17	2	43
4 1950	844	39	3	14	1	24	3	78
5 Total area in drainage projects 1 acres served 1980	4,870,106	114,466	50,692	352,885	26,071	267,230	7,400	332,603
6 1950	4,701,095	125,221	33,684	347,206	26,071	280,798	22,724	352,265
7 Area not used for agriculture or not drained acres served 1980	189,140	5,300		28,290	·			4,328
8 Net area drained and used for agriculture acres served 1980	4,680,966	109,166	50,692	324,595	26,071	267,230	7,400	328,275
Drainage established before 1950 acres served 1960	4,447,703	109,166	32,540	317,141	26,071	267,230	6,900	327,135
Area added, 1950-1959 acres served 1960	233,263		18,152	7,454			500	1,140
Area served by two or more projects acres served 1960	917,881		6,740	124,373		57,040		68,169
PROJECTS, 1960, BY TYPE OF ORGANIZATION								
2 Drains owned by one landowner number of projects	167	1	4	29				4
3 acres served ²	236,104	800	3,310	26,524				2,480
4 Cooperative or mutual drainsnumber of projects	202	1	4	21		4	1	15
5 acres served ²	276,463	450	21,582	22,846		4,180	500	10,780
B Legally organized public drains number of projects	229	17	2	7	1	13	1	24
7 acres served ²	5,252,771	107,916	32,540	410,290	26,071	325,140	6,900	388,664
PROJECTS, 1960, BY YEAR STARTED								
8 1950-1959 number of projects	338		9	50		4	1	22
g acres served ²	773,954		49,192	138,519		4,180	500	48,871
Prior to 1950number of projects	260	19	1	7	1	13	1	21
acres served ²	4,991,384	109,166	8,240	321,141	26,071	325,140	6,900	353,053
DRAINAGE OPERATIONS, 1950-1959 ³								
2 Cost of drainage works and servicesprojects reporting	471	6	8	57	1	11	1	39
3 dollars	20,488,226	20,701	65,886	2,051,610	36,230	224,392	24,500	1,819,385
4 New drainage works constructed, enlarged, or installed	352	1	8	51		5	1	21
5 dollars	9,044,351	300	65,886	1,956,980		23,270	24,500	84,204
6 Open ditches	347	1	8	51		5	1	21
7 tength, miles	1,796.0	0.1	36.7	364.9		9.9	3.3	49.8
8 Tile or covered drainsprojects reporting								
length, miles								
0 Levees or dikes	9							4
length, miles	27.8							14.5
2 Pumpsprojects reporting	3							
3 number of pumps	4							
Other (see text)				***	• • • •			
5 Cost of maintenance, operation, rapair, and administration	169	6		27	1	7		20
6 dollars	11,443,875	20,401		94,630	36,230	201,122		1,735,181
	,,			,.,,	30,230	,		-,,202

Land served by two or more projects counted only once.

Acres served by two projects are included for each project. See text.

Includes projects taken over by another project prior to 1960. See text.

ARKANSAS

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1960 data]											
Item and Consus year	Crawford	Crittenden	Cross	Desha	Drew	Faulkner	Greene	Hempstead			
AREA							-				
1 Approximate land area	382,080	398,720	400,640	496,640	535,040	413,440	370,560	470,40			
2 Land in farms	160,603	350,192	319,960	270,695	176,153	286,992	267,842	257,50			
3 Drainage projectsnumber 1960	2	25	41	28	7	4	42				
4 1950	1	11	189	16	1	3	44				
5 Total area in drainage projects 1	1,860	268,337	173,325	335,875	17,200	13,899	207,544	9,10			
6 1950	920	260,337	156,782	308,322	3,440	9,169	207,057	9,10			
7 Area not used for agriculture or not drained acres served 1960				3,480			1,700				
8 Net area drained and used for agriculture acres served 1960	1,860	268,337	173,325	332,395	17,200	13,899	205,844	9,10			
9 Drainage established before 1950 acres served 1960		259,897	130,575	328,195	4,040	13,899	199,544	9,10			
10 Area added, 1950-1959 acres served 1960	1,860	8,440	42,750	4,200	13,160		6,300	·			
11 Area served by two or more projects acres served 1980		33,064	11,296	123,675			49,291				
PROJECTS, 1960, BY TYPE OF ORGANIZATION											
12 Drains owned by one landowner number of projects		11	13	17	2	1	5				
13 acres served ²		7,560	17,863	47,356	3,260	529	4,840				
14 Cooperative or mutual drains	2	4	23	4	4	1	16				
15 acres served ² .	1,860	6,200	41,688	3,645	10,500	800	18,898				
16 Legally organized public drainsnumber of projects		10	5	7	1	2	21				
17 acres served ²		289,241	125,070	435,476	3,440	12,570	237,102	9,104			
PROJECTS, 1960, BY YEAR STARTED											
18 1950-1959number of projects	2	16	30	16	5	1	21				
19 acres served ²	1,860	43,104	54,534	121,068	11,200	529	34,978				
20 Prior to 1950number of projects		9	11	12	2	3	21				
21 scree served ²	***	259,897	130,087	365,409	6,000	13,370	225,862	9,104			
DRAINAGE OPERATIONS, 1950-1959											
22 Cost of drainage works and servicesprojects reporting	2	24	35	26	6	3	30				
23 dollars	15,715	1,344,322	210,563	4,539,015	59,468	25,982	450,697				
New drainage works constructed, enlarged, or installed	2	13	32	22	6	1	23				
25 dollars	15,715	43,574	154,761	4,293,622	59,468	14,500	231,499				
26 Open ditches projects reporting	2	13	32	22	6	14,500	21				
27 length, miles	5.1	23.6	93,5	310.2	31.2		36.4				
28 Tile or covered drainsprojects reporting											
29 length, miles											
30 Levees or dikes projects reporting						1	2				
31 length, miles						0.6	11.0				
32 Pumpsprojects reporting											
number of pumps											
34 Other (see text) projects reporting											
35 Cost of maintenance, operation, repair, and											
administrationprojects reporting		1 300 748	55 900	2/5 202	•••	3	8				
GOLIAPS	***	1,300,748	55,802	245,393		11,482	219,198				

Lland served by two or more projects counted only once.

Acres served by two projects are included for each project. See text.

Includes projects taken over by another project prior to 1960. See text.

County Table 1. - DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

=			· · · · ·	ty 61 1980 and 1950		T -			
	Item and Census year	Independence	Jackson	Jefferson	Lafayette	Lawrence	Lee	Lincoln	Little River
	AREA								
	1 Approximate land areancres 1960	483,200	407,680	569,600	336,640	378,880	396,800	361,600	348,160
	2 Land in farmsacres 1959	305,090	348,913	311,941	130,861	279,132	272,618	223,175	182,247
	3 Drainage projectsnumber 1960	12	35	43	4	28	25	18	4
	4 1950	10	56	34	4	33	21	9	1
	Total area in drainage projects acres served 1960	15,494	195,867	202,841	51,460	180,246	112,637	110,684	24,560
	1950	28,866	181,679	218,942	41,034	199,423	107,702	101,424	10,892
	7 Area not used for agriculture or not drained acres served 1960	3,950		18,800			8,320		2,880
	Net area drained and used for agriculture acres served 1960	11,544	195,867	184,041	51,460	180,246	104,317	110,684	21,680
	9 Drainage established before 1950 acres served 1960	7,676	175,736	167,846	41,414	178,971	93,972	104,924	8,012
1		3,868	20,131	16,195	10,046	1,275	10,345	5,760	13,668
1			11,920	37,230		13,471	5,285	17,645	5,292
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		,	. , ,		,	,,,,,,	21,042	,,,,,,,
	PROJECTS, 1960, BY TYPE OF ORGANIZATION								
1	2 Drains owned by one landowner number of projects		10	11	1	4	10	2	2
1	acres served ²		10,906	9,875	6,000	2,706	9,215	12,400	1,500
1	Cooperative or mutual drains	9	6	14		13	6	7	
1	acres served ²	7,098	5,456	10,920		12,780	4,945	8,335	
1	Legally organized public drainsnumber of projects	3 .	19	18	3	11	9	9	2
1	acres served ²	4,446	192,541	212,856	45,460	178,801	95,442	107,594	26,012
	PROJECTS, 1960, BY YEAR STARTED								
1	i 1950-1959	4	17	26	1	17	14	8	3
11	acres served ²	3,868	28,319	26,555	10,046	15,486	13,530	8,900	19,500
20	Prior to 1950number of projects	8	18	17	3	11	11	10	1
21	acres served ²	7,676	180,584	207,096	41,414	178,801	96,072	119,429	8,012
	DRAINAGE OPERATIONS, 1950-1959 ⁵								
29	Cost of drainage works and servicesprojects reporting	5	24	36	2	18	22	12	3
23	dollars	32,458	315,732	481,206	173,814	88,951	148,548	102,881	329,200
24	New drainage works constructed, enlarged, or installed	4	18	26	1	17	16	9	3
25	dollars	31,458	200,976	131,514	104,230	51,231	49,433	63,313	329,200
26	Open ditchesprojects reporting	4	18	26	1	17	16	9	3
21	length, miles	16.0	61.3	58.0	8.0	33.8	35.7	21.5	29.8
26	Tile or covered drainsprojects reporting								***
29	longth, miles)		
30	Levees or dikes								1
31	length, miles								0.5
32	Pumpsprojects reporting			1					
33				2					
34									
35	Cost of maintenance, operation, repair, and administrationprojects reporting		8						
36	dollars	1,000	-	10	1	27, 720	8	20. 500	***
	dollars	1,000	114,756	349,692	69,584	37,720	99,115	39,568	• • • • • • • • • • • • • • • • • • • •

Land served by two or more projects counted only once-Acres served by two projects are included for each project. See text. Includes projects taken over by another project prior to 1960. See text.

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County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

_				ty Ot 1960 and 1960 a					
	Item and Census year	Logan	Lonoke	Miller	Mississippi	Monroe	Perry	Phillips	Poinsett
	AREA								
	Approximate land areaacres 1960	463,360	512,000	401,280	589,440	394,880	353,920	450,560	487,680
	Land in farmsacres 1959	265,214	377,698	188,850	533,421	201,508	98,122	305,315	404,318
	Drainage projectsnumber 1960	4	20	8	21	9	3	30	31
	1950	1	90	8	11	15	3	9	10
	Total area in drainage projects 1	2,720	219,269	86,069	499,678	29,046	15,560	261,678	396,700
	1950	1,301	238,885	86,069	516,687	30,565	14,728	113,404	404,190
	Area not used for agriculture or not drained acres served 1960	***	9,492	15,000	17,000	700		6,420	51,380
-	Net area drained and used for agriculture scres served 1960	2,720	209,777	71,069	482,678	28,346	15,560	255,258	345,320
	Drainage established before 1950 acres served 1960		209,727	71,069	480,691	24,040	14,720	253,238	345,320
10	Area added, 1950-1959 acres served 1960	2,720	50		1,987	4,306	840	2,020	
1	Area served by two or more projects acres served 1960		11,734	1,920	204,424	320		115,497	7,430
	PROJECTS, 1960, BY TYPE OF ORGANIZATION								
19	Drains owned by one landowner number of projects	3	3		4	2		15	12
13	acres served ²	2,200	3,342		33,700	1,306		13,400	6,735
14	Cooperative or mutual drainsnumber of projects	1	2		7	4	1	9	11
15	acres served ²	520	4,000		5,150	4,050	840	18,013	8,337
16	Legally organized public drainsnumber of projects		15	8	10	3	2	6	8
17	acres served 2		214,169	72,989	729,572	23,310	14,720	350,863	337,788
	PROJECTS, 1960, BY YEAR STARTED								
16	1950-1959 number of projects	4	1		11	5	1	21	23
19	scres served ²	2,720	850		55,450	5,036	840	19,496	15,072
20	Prior to 1950number of projects	***	19	8	10	4	2	9	8
21	acres served ²		220,661	72,989	712,972	23,630	14,720	362,780	337,788
	DRAINAGE OPERATIONS, 1950-1959 ³								
	Cost of drainage works and services projects reporting	4	9	6	21	7	1	30	27
28		15,386	81,717	60,360	4,772,808	18,391	3,349	851,488	1,803,808
24	New drainage works constructed, enlarged, or installed	4	2		9	5	1	23	23
26	dollars	15,386	7,221		507,609	14,962	3,349	308,068	88,509
26	Open ditchesprojects reporting	4	2		9	5	1	23	23
27	length, miles	4.1	7.8		320.8	9.9	3.5	122.1	48.9
26	Tile or covered drainsprojects reporting								
29	length, miles								
30	Levees or dikesprojects reporting							***	
31	length, miles								
39	Pumpeprojects reporting								1
33	number of pumps	***						***	1
34		***							
35	Cost of maintenance, operation, repair, and administrationprojects reporting		9	6	13	2		10	7
36	dollars	***	74,496	60,360	4,265,199	3,429		543,420	1,715,299

Land Served by two or more projects counted only once.
Acres served by two projects are included for each project. See text.
Includes projects taken over by another project prior to 1960. See text.

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

=				T			1-	Γ	
	ltem and Census year	Pope	Prairie	Pulaski	Randolph	St. Francis	White	Woodruff	Yell
	AREA								
1	Approximate land areaacres 1960	521,600	431,360	490,880	414,080	407,040	666,880	378,880	597,120
2	Land in farmsacres 1959	207,467	256,528	184,824	257,088	344,465	419,362	267,116	208,747
3	Drainage projectsnumber 1960	4	8	11	5	12	1	9	2
4	1950	5	62	7	5	23	1	25	2
5	Total area in drainage projects 1	7,480	28,523	62,831	53,251	55,583	17,569	46,509	15,360
6	1950	8,838	37,803	31,951	53,251	47,285	17,569	48,867	16,640
7	Area not used for agriculture or not drained acres served 1969		7,740	2,160		700		1,500	
8	Net area drained and used for agriculture acres served 1960	7,480	20,783	60,671	53,251	54,883	17,569	45,009	15,360
9	Drainage established before 1950 acres served 1960	6,280	20,783	43,031	53,251	43,219	17,569	39,417	15,360
10	Area added, 1950-1959 acres served 1960	1,200		17,640		11,664		5,592	
11	Area served by two or more projects acres served 1960		850	1,600		7,623		1,992	
	PROJECTS, 1960, BY TYPE OF ORGANIZATION								
12	Drains owned by one landowner number of projects		2	1		2			
13	acres served ²		1,800	4,400		2,097			
14	Cooperative or mutual drainsnumber of projects	1	4	5		6		5	
15	acres served ² .	1,200	5,330	17,419		12,111		6,030	
16	Legally organized public drainsnumber of projects	3	2	5	5	4	1	4	2
17	acres served 2	6,280	14,503	40,452	53,251	48,298	17,569	40,971	15,360
	PROJECTS, 1960, BY YEAR STARTED								
18	1950-1959	1				7		5	
19	acres served ²	1,200		19,303		11,664		7,584	
20	Prior to 1950number of projects	3	8	7	5	5	1	4	2
21	acres served ²	6,280	21,633	42,968	53,251	50,842	17,569	39,417	15,360
	DRAINAGE OPERATIONS, 1950-1959 8								
22	Cost of drainage works and services projects reporting	3	4	6	2	8		5	1
23	dollars	2,882	15,399	69,508	10,641	147,004		35,405	38,824
24	New drainage works constructed, enlarged, or installed	1		5		7		5	1
25	dollars	2,882		52,498		40,004		35,405	38,824
26	Open ditchesprojects reporting	1		4		7		5	
27	length, miles	1.3		9,2		27.4		12.2	
28	Tile or covered drainsprojects reporting			***					
29	length, miles								
30	Levees or dikes								1
31	length, miles								1.2
32	Pumpsprojects reporting			1					
33	number of pumps			1					
34	Other (see text)projects reporting								
35	Cost of maintenance, operation, repair, and administration		4	2	2	1			
36	dollars		15,399	17,010	10,641	107,000			
				,	,	,			

Land served by two or more projects counted only once.

Acres served by two projects are included for each project. See text.

Includes projects taken over by another project prior to 1960. See text.

State Table 1. -DRAINAGE PROJECTS-NUMBER, AREA, COST, AND WORKS, 1920 TO 1960

[See text for comparability of data]

ltem	1960 Census	1950 Cenous	1940 Census	1930 Census	1920 Census
	o candido				
AREA	100,206,720	100,313,600	100,353,920	99,617,280	99,617,280
Approximate land area		36,613,291	30,524,324	30,442,581	29,365,667
Land in farms	36,887,948	2.047	158	NA NA	NA NA
Drainage projects	1,934,825	2,554,576	2,667,194	2,233,714	1,108,319
total area in dramage projects	23,574	NA NA	NA NA	NA NA	N.A
Acta not upon or agriculture or not money	1,911,251	NA NA	12,551,036	12,024,446	N.A
net mes manet and part of apreniate	1,666,899	NA NA	NA NA	NA NA	NA NA
Drainage established 10 years or more before Census date	244,352	NA.	NA.	NA NA	NJ
Area served by two or more projects	106,696		88,563	60,354	
Area served by two or more projects.					
PROJECTS BY TYPE OF ORGANIZATION					
Drains owned by one jandowner	157	248	NA.	NA .	N.A
acres served,	311,903	² 177,321	² 89,985	² 50,384	² 147,678
Cooperative or mutual drainsnumber of projects	45	213	•••	***	•
acres served	124,511	² 73,266	***	***	
Logally organized public drains number of projects	154	2102	NA	NA .	N.
acres served,	1,583,133	²1,202,950	² 1,168,701	² 1,167,139	² 795,441
PROJECTS BY YEAR STARTED					
Started 10 years or more before Census date	269	² 142	NA	NA.	NA
acres served	1,752,466	21,400,083	2,624,471	1,753,760	3471,396
Started within 10 years of Census date	87	221	NA	NA.	NA
acres served	267,081	² 53,454	42,723	479,954	3566,114
OPERATIONS, 10-YEAR PERIOD PRECEDING CENSUS DATE	ì	2			N.F
Cost of drainage works and services projects reporting	344	2159	NA NA	NA NA	NA NA
dollarq	29,065,257	15,926,510 416	NA 16	NA NA	NJ NJ
New drainage works constructed, enlarged, or installed	206			NA NA	N.
cost, dollars	4,525,825	4135,346	NA.	NA NA	N.F
Open ditches	167	15	NA.	NA NA	N.F
length, miles	812.9	34	NA NA	NA NA	N/
Title or covered drains	21	11	NA NA	NA.	NJ.
length, males	46.0 50		NA NA	NA NA	N.
Levees or dakes	227.4	• • •	NA NA	NA NA	N.
length, males	227.4	NA NA	NA.	NA NA	NA NA
Pumps projects reporting	162	NA NA	NA.	NA.	NA NA
number of pumps	42	NA.	NA NA	NA.	NA NA
Other (see text)	289	NA NA	NA.	NA NA	N.F
Cost of maintenance, operation, repair, and administration		15,791,164	NA.	NA.	NA NA
dollars	24,539,432	13,791,164	NA.	, na	
STATUS ON CENSUS DATE					
Capital investment	NA	NA	70,144,044	66,451,698	47,687,153
Physical works: Open duches. length, miles	NA.	NA.	6,091,1	4,605.9	3,009.8
Open ditches. iengtn, miles Tile drains length, miles.	NA NA	NA NA	326.2	486.2	85.6
Levees and dikes. length, miles.	NA AN	NA NA	1,537.6	1,389.5	1,131.1
Pumping unitsnumber of units	NA NA	² 382	763	426	N.A
r unipring unites	NA.	302	, 0,	1	

MA Not available.

Not fully comparable. See text.

1905 fugures exclude 1,86% projects and 1,101,039 acres in "irrigation enterprises"; 1940 figures exclude 1,408,508 acres in "irrigation enterprises"; 1930 figures exclude 1,016,191 acres in "firrigation enterprises"; 1920 figures exclude 1,020,030 acres in "irrigation enterprises."

1920 figures exclude 7,809 acres for which date of organization was not reported.

4cost of new works for lands not previously drained.

State Table 2.-DRAINAGE

			ed and used 1ture, 1960	Are	a by period drain	age was establish	ied
Size of project (Based on ares of agricultural land in project)	Number of projects	D. 4-3	Served by two	Befo	re 1950	Area added	1950-1959
		Total (acres)	or more projects (acres)	Projects reporting	Acres	Projects reporting	Acres
t All projects	356	2,019,547	214,992	282	1,767,032	84	252,515
2 500 to 999 scres	104	71,294	23,895	67	45,447	39	25,847
1,000 to 1,999 acres	76	101,939	26,164	57	75,458	20	26,481
2,000 to 4,999 acres	75	230,410	47,543	67	204,634	10	25,776
5,000 to 9,998 acres	56	381,682	55,813	49	320,334	10	61,348
10,000 to 19,999 acres	27	385,170	24,073	24	329,130	4	56,040
20,000 to 49,999 acres	9	234,240	14,297	9	234,240		
50,000 to 99,999 acres	8	477,966	20,838	8	420,943	1	57,023
100,000 or more acres	1	136,846	2,369	1	136,846		

State Table 3.-DRAINAGE PROJECTS, 1960,

		Area drained for agricul		Area	by period drains	ge was establishe	1
Type of organization	Number of projects	Total	Served by two	Before	1950	Area added	1950-1959
	F0	(acres)	or more projects (acres)	Projects reporting	Acres	Projects reporting	Acres
All projects,	356	2,019,547	214,992	282	1,767,032	84	252,51
Drains owned by one landowner.	157	311,903	85,783	129	272,280	33	39,62
Cooperative or mutual drains	45	124,511	15,328	15	38,652	32	85,85
Legally organized public drains	154	1,583,133	113,881	138	1,456,100	19	127,03

State Table 4.-DRAINAGE PROJECTS, 1960,

			Area draine for agricul		Area by period drainage was established						
	Year of organization	Number of projects		Served by two	Befor	e 1950	Area added 1950-1959				
		projects	Total (acres)	or more projects (acres)	Projects reporting	Acres	Projects reporting	Acres			
1	All projects.	356	2,019,547	214,992	282	1,767,032	84	252,515			
2	1950-1959	87	267,081	31,365	13	15,501	81	251,580			
3	Prior to 1950.	269	1,752,466	183,627	269	1,751,531	3	935			

¹Includes projects taken over by another project prior to 1960. See text.

PROJECTS, 1960, BY SIZE

							constructed, e	,	,		-	
To	tel	For new	works	Open d	itches	Tile or cove	ered drains	Levees a	nd dikes	Pump	98	Other,
Projects reporting	Dollars	Projects reporting	Dollars	Frojects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Frojects reporting	Number	projects reporting
344	29,065,257	206	4,525,825	167	812.9	21	46.0	50	227.4	74	162	4.
102	1,367,077	78	662,786	69	204.6	6	13.6	20	55.4	18	29	1
72	1,863,853	43	604,837	35	118.0	8	9.2	14	43.2	12	13	1
72	5,896,932	38	1,232,258	26	168.5	4	8.5	9	56.9	19	40	1
55	6,703,709	27	689,709	21	195.2	2	11.5	4	29.4	12	29	
26	4,437,840	14	544,595	12	93.3			2	19.0	8	23	
8	2,490,090	2	112,587	1	10.0	1	3.2			2	8	
8	6,105,756	4	679,053	3	23.3			1	23.5	3	20	
1	200,000											

BY TYPE OF ORGANIZATION

Cost of di	rainage works :	and services,	1950-1959			New works	constructed, e	enlarged, or i	installed, 195	0-1959		
To	tal	For new	works	Open d	itches	Tile or cove	red drains	Levees s	nd dikes	Pump	os	Other,
Projects Dollars reporting		Projects reporting	Dollars	Frojects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Frojects reporting	Number	projects reporting
344	29,065,257	206	4,525,825	167	812.9	21	46.0	50	227.4	74	162	42
155	4,444,461	103	1,046,141	96	488.1	6	4.8	28	100.8	34	61	26
41	1,341,852	37	665,387	29	124.2	10	25.4	3	5.9	2	3	7
148	23,278,944	66	2,814,297	42	200.6	5	15.8	19	120.7	38	98	9

BY YEAR OF ORGANIZATION

Cost of d	irainage works	and services,	1950-1959		New works constructed, enlarged, or installed, 1950-1959										
To	otal	For ne	w works	Open d	l tches	Tile or cov	ered drains	Levees a	nd dikes	Fus	mps .	Other,	1		
Projects reporting Dollars		Frojects reporting	Dollars Projects reporting		Length (miles)	Frojects reporting			Length (miles)	Projects reporting	Number	projects reporting			
344	29,065,257	206	4,525,825	167	812.9	21	46.0	50	227.4	74	162	42			
188	3,664,379	87	2,304,476	79	350.2	12	25.9	22	90.1	9	29	22	Į		
256	25,400,878	119	2,221,349	88	462.7	9	20.1	28	137.3	65	133	20	1		
1													1		

County Table 1. – DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

_		[Set	e text for comparar	lity of 1960 and 1950 data]						
	Item and Consus year	The State	Alameda	Butte	Colusa	Contra Costa	Freano	Clenn	Kings	Lake
	AREA									
1	Approximate land areaacres 1960	100,206,720	469,120	1,064,320	737,920	469,760	3,816,960	842,880	892,800	803,840
2	Land in farmsacres 1959	36,887,948	311,139	670,119	491,128	287,927	2,286,381	648,569	678,005	252,310
3	Drainage projectsnumber 1960	356	9	12	30	44	5	12	8	4
4	1950	2,047	11	120	65	54	26	60	15	30
5	Total area in drainage projects 1 acres served 1960	1,934,825	26,400	129,421	252,892	56,809	79,888	106,372	59,231	2,542
6	1950	2,554,576	1,776	156,665	258,742	56,930	86,627	147,132	27,981	2,518
7	Area not used for agriculture or not drained acres served 1980	23,574								
8	Net area drained and used for agriculture acres served 1960	1,911,251	26,400	129,421	252,892	56,809	79,888	106,372	59,231	2,542
9	Drainage established before 1950 acres served 1960	1,666,899	12,400	129,421	252,042	56,809	79,888	104,370	59,231	1,992
10	Area edded, 1950-1959 acres served 1960	244,352	14,000		850	•••		2,002		550
11	Area served by two or more projects acres served 1960	106,696	1,000	7,754	21,548	28,209		2,234		
	PROJECTS, 1960, BY TYPE OF ORGANIZATION									
12	Drains owned by one landowner number of projects	157		3	18	30		3		
13	acres served ²	311,903		2,126	45,867	30,845		4,555		
14	Cooperative or mutual drainsnumber of projects	45	2		1					1
15	acres served ²	124,511	2,500		2,300					550
16	Legally organized public drainsnumber of projects	154	7	9	11	14	5	9	8	3
17	acres served ²	1,583,133	24,900	136,649	226,273	54,173	79,888	104,051	59,231	1,992
	PROJECTS, 1960, BY YEAR STARTED									
16	1950-1959 number of projects	87	7		2	1		2		1
19	acres served ²	267,081	14,000		1,493	1,657		4,280	·	550
20	Prior to 1950number of projects	269	2	12	28	43	5	10	8	3
21	acres served ²	1,752,466	13,400	138,775	272,947	83,361	79,888	104,326	59,231	1,992
	DRAINAGE OPERATIONS, 1950-1959 5									
22	Coet of drainage works and servicesprojects reporting	344	8	12	29	44	5	10	6	4
23	dollars	29,065,257	294,146	753,274	1,853,987	1,934,651	603,524	192,600	705,947	162,034
24	New drainage works constructed, enlarged, or installed	206	7	1	15	18	1	5		4
25	dollars	4,525,825	216,146	150	217,288	161,878	27,569	51,500		47,010
26	Open ditchesprojects reporting	167	7		15	15	1	5		4
27	length, miles	812.9	24.5		62.9	92.0	4.0	10.0		3.5
28	Tile or covered drainsprojects reporting	21								
29	length, miles	46.0								
30	Levees or dikes	50	5		4	1		1		2
31	length, miles	227.4	22.1		14.0	6.0		1.7		0.6
32	Pumpsprojects reporting	74			4	6	1	1		2
33	number of pumps	162			6	11	6	3		4
34	Other (see text)projects reporting	42		1	7	1		3		
35	Cost of maintenance, operation, repair, and administrationprojects reporting	289	1	12	28	44	5	9	6	3
36	dollars	24,539,432	78,000	753,124	1,636,699	1,772,773	575,955	141,100	705,947	115,024
				,	.,,	.,,	,	,	,	,,,,,,,

land served by two or more projects counted only once. Acres served by two projects are included for each project. See text. Fineluses projects taken over by another project prior to 1960. See text.

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959-Continued

March Medical Medica											
		Item and Census year	Marin	Mendocino	Merced	Modoe	Monterey	Napa	Orange	Placer	Plumaa
Decide of fine from		AREA									
Deliance projects	1	Approximate land areascres 1960	332,800	2,244,480	1,268,480	2,618,980	2,127,360	485,120	500,480	911,360	1,644,800
Total arise in dissingle projects Section	2	Land in farms	227,450	1,057,226	969,504	1,035,911	1,612,991	296,112	345,689	258,825	95,465
Teal area in distingle projects Section	3	Drainage projectsnumber 1960	9	2	8	1	5	3	8	5	5
Note that the series served 180	4	1950	5	12	76	10	35	10	33	14	5
New note used for agriculture or mit detailed series series 1890. 8,677 21,400 42,713 3,000 26,955 2,266 89,863 3,776 12,706	5	Total area in drainage projects 1scres served 1960	8,677	21,600	45,713	3,000	26,955	2,206	87,687	3,776	16,760
Not. prese deviated and used for agricultures series nerved 1890. 8,677 22,600 45,733 3,000 26,595 2,205 80,803 3,776 15,726 16,726 10 Area standal, the blocker 1890. arran series 1810. 7,157 21,600 42,069 3,000 7,000 89,663 2,256 12,200 16,726 12,000	6	1950	4,445	21,804	148,602	33,429	11,619	1,574	91,373	2,140	426
Prisuage established before 1860	7	Area not used for agriculture or not drained acres served 1960							6,824		
10 Area active 1995 1995	8	Net area drained and used for agriculture acres served 1960	8,677	21,600	45,713	3,000	26,955	2,206	80,863	3,776	16,760
10 Area active 1995 1995	9	Draunage established before 1950 acres served 1960	7,157	21,600	43,089	3,000	7,000	• • • •	80,863	2,526	
13 Anne served by two or more projects serves served 19860.	10	Area added, 1950-1959 acres served 1960	1,520				19,955	2,206			16,760
1 10 Pacies or smooth by one landomerre number of projects 0 0 0 0 0 0 0 0 0	11	Area served by two or more projects acres served 1960						•••	1,000		
13		PROJECTS, 1960, BY TYPE OF ORGANIZATION									
Cooperative or mutual drains	12	Drains owned by one landowner number of projects	9	•••	•••	1	2		2	4	3
15	13	acres served ²	8,677	•••		3,000	3,455	• • •	52,037	1,776	2,600
Legally organized public drains	14	Cooperative or mutual drainsnumber of projects			4		2	3			2
The control of the	15	ecres served ²			5,162		18,800	2,206			14,160
PROJECTS, 1960, BY YEAR STARTED 18 1950-1959 .	16	Legally organized public drainsnumber of projects		2	4		1		6	1	
18 1950-1959	17	acres served ²		21,600	40,551		4,700		29,826	2,000	
19 Sectes served 1,325 2,624 19,955 2,206 1,250 16,760		PROJECTS, 1960, BY YEAR STARTED									
Prior to 1950	18	1950-1959 number of projects	2		2		3	3		2	5
21	19	acres served ²	1,325		2,624		19,955	2,206		1,250	16,760
DRAINAGE OPERATIONS, 1900-1959* 22 Cost of drainage works and services	20	Prior to 1950number of projects	7	2	6	1	2		я	3	
Cost of dramage works and services Perspecta reporting Persp	21	acres served ²	7,352	21,600	43,089	3,000	7,000	•••	81,863	2,526	
23 Mew dialange works constructed, enlarged, or installed		DRAINAGE OPERATIONS, 1950-1959									
New drainage works constructed, enlarged, or installed	22	Cost of dramage works and services projects reporting	9	1	5	(4)	5	3	8	5	5
of installed			169,009	32,000	492,238	(4)	245,184	120,000	439,632	36,602	75,255
98 Open disches.	24	New drainage works constructed, enlarged, or installed	7		5		3	3	3	3	4
Properation Properation	25	dollars	115,332		110,284		22,120	110,000	134,967	3,985	62,255
28 Tile or covered drains	26	Open ditchesprojects reporting	7		4		3	3	1	3	4
29	27	length, miles	61.1	• • • •	6.7		8.2	9.5	3.1	2.7	18.1
30 Levees or dikes	28	Tile or covered drainsprojects reporting			1				2		
1	29	length, miles			3.2				13,5		
32 Pumps	30	Levees or dikesprojects reporting	7				1	1			1
33 number of pumps 13 5 2 3 34 Other (nee text) 1 2 1 2 25 Cost of maustenance, operation, repair, and administration 6 1 4 (4) 2 1 7 3 5	31	length, miles	29.0				3,5	0.5			1.4
34 Other (see text)	32	Pumpeprojects reporting	5		2		1		1		
25 Cost of maintenance, operation, repair, and administration	33	number of pumps	13		5		2		3		•
administration	34	Other (see text)projects reporting	2		1		2			1	2
	35	Cost of maintenance, operation, repair, and administration	6	1	4	(4)	2	1	7	3	5
	38		53,677	32,000	381,954	(4)	223,064	10,000	304,665	32,617	13,000

land served by two or more projects counted only once.

Acres served by two projects are included for each project. See text.

Includes projects taken over by another project prior to 1960. See text.

Included in State total only.

County Table 1. - DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959-Continued [See text for comparability of 1960 and 1950 data]

=	Item and Census year	Riverside	Sacramento	San Benito	San Josquin	San Luis	Santa	2		
	item and Census year	Riverside	Sacramento	San Benito	San Joaquin	Obispo	Barbara	Santa Clara	Santa Cruz	Sierra
	AREA									
1	Approximate land areaacres 1960	4,593,280	629,120	893,440	1901,760	2,122,240	1,752,320	833,280	280,960	613,120
2	Land in farmsacres 1959	801,430	546,988	750,447	¹ 924,893	1,687,216	937,523	529,489	108,984	92,189
3	Drainage projectsnumber 1960	3	25	6	59	2	1	10	2	1
4	1950	14	254	5	251	18	22	19	34	2
5	Total area in drainage projects 2 scres served 1960	2,900	119,173	7,839	183,914	2,205	5,230	48,111	60,000	6,000
6	1950	11,914	160,652	110	329,572	7,608	5,881	5,514	3,140	600
7	Area not used for agriculture or not drained acres served 1960							7,250	1,100	
6	Net area drained and used for agriculture acres served 1960	2,900	119,173	7,839	183,914	2,205	5,230	40,861	58,900	6,000
9	Dramage established before 1950 acres served 1960	1,800	117,863	650	176,835	2,205	5,230	13,626	1,877	
10	Area added, 1950-1959 acres served 1960	1,100	1,310	7,189	7,079			27,235	57,023	6,000
11	Area served by two or more projects acres served 1980		3,506	1,150	6,826				1,877	
	PROJECTS, 1960, BY TYPE OF ORGANIZATION									
12	Drains owned by one landowner number of projects	1	7	1	33	1	1	2		1
13	acres served	1,000	6,164	639	70,356	420	5,230	8,685		6,000
14	Cooperative or mutual drainsnumber of projects	1	2	5	2			1		
15	acres served ⁸	1,100	1,310	8,350	3,185			12,500		
16	Legally organized public drainsnumber of projects	1	16		24	1		7	2	
17	acres served	800	115,205		117,199	1,785		19,676	60,777	
	PROJECTS, 1960, BY YEAR STARTED									
16	1950-1959number of projects	1	2	5	3			8	1	1
19	acres served	1,100	1,310	8,339	6,779	• • • • • • • • • • • • • • • • • • • •		27,235	58,900	6,000
20	Prior to 1950number of projects	2	23	1	56	2	1	2/,23	1	0,000
21	acres served ⁸	1,800	121,369	650	183,961	2,205	5,230	13,626	1,877	
		,	,		,	4,20-	-,250	25,020	2,077	•••
90	DRAINAGE OPERATIONS, 1950-1959 Cost of drainage works and services	3	23	5	58					
23	dollars	43,248				2	1	9	2	(5)
	New drainage works constructed, enlarged,	42,240	2,830,121	34,562	5,827,009	191,759	40,000	936,261	1,398,679	(5)
-	or installedprojects reporting	(5)	12	5	28			8	1	(5)
25	dollars	(5)	153,011	34,262	516,458			746,211	327,768	(5)
26	Open ditchesprojects reporting		4	5	20			8	1	(5)
27	length, miles	• • •	3.5	9.6	152.8			18.4	14.2	(5)
28	Tile or covered drainsprojects reporting	(5)	1		2			2		
29	length, miles	(5)	1.3		0.2			1.1		
30	Levees or dikesprojects reporting		2		9			4	1	
31	length, miles		1.8	***	77.0			12.5	23.5	
32	Pumpsprojects reporting		7		21				1	
38	number of pumps		8		45		• · ·		12	
34	Other (see text)projects reporting		2		2			2	1	(5)
35	Cost of maintenance, operation, repair, and administration	3	21	1	58	2	1	3	2	(5)
86	dollars	8,409	2,677,110	300	5,310,551	191,759	40,000	190,050	1,070,911	(5)
					,	.,	,,	,,,,,	-,,	` /

The excess of farm acreage over approximate land area is due to the fact that the entire acreage of a farm is tabulated as in the county in which the headquarters is located, even though a part of the farm may be situated in an adjoining county.

Zhand served by two or more projects occurred only once.

Jacres served by two projects are included for each project. See text.

Includes projects taken over by another project prior to 1960. See text.

Included in State total only.

County Table 1. - DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959-Continued

		Lone	text for comparability	rh or 1880 wad 1890 c	inta				
	Item and Census year	Solano	Sanama	Stanislaus	Sutter	Ventura	Yolo	Yuba	All other counties1
	AREA								
1	Approximate land areaacres 1960	529,280	1,010,560	960,000	388,480	1,184,640	661,760	407,680	58,418,560
2	Land in farms	477,975	763,847	847,395	406,563	449,265	566,199	261,589	14,512,659
3	Drainage projectsnumber 1960	30	13	10	22	4	30	3	
4	1950	53	20	35	278	122	88	26	275
5	Total area in drainage projects ²	91,657	16,411	13,981	196,504	20,404	194,286	36,281	
6	1950	74,872	3,981	178,736	265,973	41,412	198,434	38,523	173,871
7	Area not used for agriculture or not drained acres served 1960. , .	1,920				500	3,100	2,880	
8	Net area drained and used for agriculture acres served 1960	89,737	16,411	13,981	196,504	19,904	191,186	33,401	
9	Drainage established before 1950 acres served 1960	58,613	14,896	3,105	193,434	19,904	162,072	33,401	
10	Area added, 1950-1959 acres served 1960	31,124	1,515	10,876	3,070		29,114		
11	Area served by two or more projects acres served 1960	10,418			7,582	800	12,792		
	PROJECTS, 1960, BY TYPE OF ORGANIZATION								
12	Drains owned by one landownernumbor of projects	14	10		8	1	9		
13	acres served ³ ,.	16,582	9,238		10,759	800	21,092		
14	Cooperative or mutual drainsnumber of projects	3	1	10	2		5		
15	acres served ³ . ,	23,640	673	13,981	3,180		10,914		
16	Legally organized public drainsnumber of projects	13	2		12	3	16	3	
17	acres served ³	59,933	6,500		190,147	19,904	171,972	33,401	
	PROJECTS, 1960, BY YEAR STARTED								
18	1950-1959 number of projects	15	2	8	4		11		***
19	acres served ³	40,667	1,515	10,876	3,830		34,430		
20	Prior to 1950number of projects	15	11	2	18	4	19	3	
21	acres served ³ .,	59,488	14,896	3,105	200,256	20,704	169,548	33,401	* * *
ĺ	DRAINAGE OPERATIONS, 1950-1959 4								
22	Cost of drainage works and services	31	13	10	22	4	29	3	
23	dollars	1,836,849	184,877	269,764	2,681,217	318,150	3,859,568	468,110	
24	New drainage works constructed, enlarged, or installed	26	13	9	11	1	18	1	
25	dottars	373,934	130,568	240,114	417,869	12,000	196,493	58,064	
26	Open ditches projects reporting	22	13	2	10		16		
27	length, miles	127.9	53.6	3.3	30.6		91.7		
28	Tile or covered drainsprojects reporting			9	2	1			
29	length, miles	***		23.4	0.3	1.0			
30	Levees or dikes	2	8	• • •			1		
31	length, miles	8.5	21.7				3.6		•••
32	Pumpeprojects reporting	8	8	1	2		5	1	***
33	number of pumps	11	11	1	5		14	2	
34	Other (see text)	1	4	3	4		2		
35	Cost of maintenance, operation, repair, and administration	24	9	6	20	4	22	3	
36	dollars	1,462,915	54,309	29,650	2,263,348	306,150	3,663,075	410,046	

Includes Alpine, Calaveras, Del Norte, El Dorado, Humboldt, Imperial, Inyo, Kern, Lassen, Los Argeles, Madera, Mono, Nevada, San Bernardino, San Diego, San Mateo, Shasta, Stakiyou, Tehama, Trinity, and Dulare counties:

"Land served by two or more projects counted anly once."

"Acres served by two projects are included for each project. See text."

"Includes projects taken over by another project prior to 1960. See text.



State Table 1.-DRAINAGE PROJECTS-NUMBER, AREA, COST, AND WORKS, 1920 TO 1960

[See text for comparability of data]

·	ext for comparability of di				
Item	1960 Census	1950 Census	1940 Cengus	1930 Census	1920 Census
AREA					
Approximate land area	66,485,760	66,510,080	66,538,880	66,341,120	66,341,120
Land in farms	38,787,312	37,953,099	31,527,240	28,876,171	24,462,014
Drainage projectsnumber	16	630	56	NA.	N/
Total area in drainage projects	55,496	623,976	468,322	366,719	171,656
Area not used for agriculture or not drained		NA.	NA.	NA NA	N/
Net area drained and used for agriculture	55,4%	NA.	1392,132	¹ 305,966	N/
Drainage established 10 years or more before Census date	55,4%	NA NA	NA.	NA NA	N/
Drainage established within 10 years of Census date		NA.	NA.	NA NA	N/
Area served by two or more projectsacres served.		1,080	972	640	
PROJECTS BY TYPE OF ORGANIZATION					
Drains owned by one landownernumber of projects	3	28	NA	NA.	NA
acres served	2,638	² 21,421	² 25,291	² 17,351	33,630
Cooperative or mutual drains	3	24	• • • •		
acres served	5,610	² 27,190			
Legally organized public drains	10	² 39	NA NA	NA NA	NA
acres served	47,248	² 255,753	² 255,709	² 250,238	138,026
PROJECTS BY YEAR STARTED					
Started 10 years or more before Census date	16	248	NA.	NA.	
acres served	55,496	² 292,174	393,363	175,486	
Started within 10 years of Census datenumber of projects		23	NA NA	NA NA	NA NA
pros served		² 12,190	74,959	191,233	171,656
Butter addition.		11,170	14,222	174,233	111,000
OPERATIONS, 10-YEAR PERIOD PRECEDING CENSUS DATE					
Cost of drainage works and services projects reporting	15	2 47	NA.	NA NA	N.F
dollarq	178,1%	773,236	NA.	NA NA	N.
New draininge works constructed, enlarged, or installed projects reporting	3	35	NA.	NA NA	N/
cost, dollars	3,750	³ 23,445	NA	NA NA	N.
Open ditches projects reporting	1	4	NA.	NA NA	N.F
length, miles	0.3	11	NA.	NA NA	NJ
Tile or covered drains	1	1	NA	NA NA	N/
length, miles	0.4	1	NA.	NA NA	N/
Levees or dikes		1	NA NA	NA NA	N/
length, miles		1	NA	NA NA	N
Pumps projects reporting	1	NA.	NA.	NA NA	NA
number of pumps	1	NA.	NA	NA	N/
Other (see text) projects reporting	1	NA.	NA	NA 1	N/
Cost of maintenance, operation, repair, and administration projects reporting	14	NA.	NA	NA NA	N
dollars	174,446	749,791	NA.	NA.	N/
STATUS ON CENSUS DATE					
	NA.	NA.	4,890,317	4,358,866	1,081,87
Capital investment	NA	NA.	4,070,317	4,500,000	1,001,07
Physical works: Open ditcheslength, miles	NA.	NA.	972.9	814.9	132.5
Tile drainslength, miles	NA.	NA	365.3	369.5	195.2
Levees and dikeslength, nules	NA NA	NA.			
Pumping unitsnumber of units	NA	(2)	4		

NA Not available.

NO tolly comparable. See text.

"You fully comparable. See text.

"1950 figures exclude 579 projects and 319,612 acres in "irrigation enterprises"; 1940 figures exclude 187,322 acres in "irrigation enterprises"; 1930 figures exclude 99,130 acres in "irrigation enterprises"; 1930 figures exclude 99,130 acres in "irrigation enterprises"; 1930 figures exclude 99,130 acres in "irrigation enterprises"; 1930 figures exclude 99,130 acres in "irrigation enterprises"; 1930 figures exclude 99,130 acres in "irrigation enterprises"; 1930 figures exclude 99,130 acres in "irrigation enterprises"; 1930 figures exclude 99,130 acres in "irrigation enterprises"; 1930 figures exclude 99,130 acres in "irrigation enterprises"; 1930 figures exclude 99,130 acres in "irrigation enterprises"; 1930 figures exclude 99,130 acres in "irrigation enterprises"; 1930 figures exclude 99,130 acres in "irrigation enterprises"; 1930 figures exclude 99,130 acres in "irrigation enterprises"; 1930 figures exclude 99,130 acres in "irrigation enterprises"; 1930 figures exclude 99,130 acres in "irrigation enterprises"; 1930 figures exclude 99,130 acres in "irrigation enterprises"; 1930 figures exclude 99,130 acres in "irrigation enterprises"; 1940 figures exclude 187,322 acres in "irrigation enterprises"; 1940 figures exclude 187,322 acres in "irrigation enterprises"; 1940 figures exclude 187,322 acres in "irrigation enterprises"; 1940 figures exclude 187,322 acres in "irrigation enterprises"; 1940 figures exclude 187,322 acres in "irrigation enterprises"; 1940 figures exclude 187,322 acres in "irrigation enterprises"; 1940 figures exclude 187,322 acres in "irrigation enterprises"; 1940 figures exclude 187,322 acres in "irrigation enterprises"; 1940 figures exclude 187,322 acres in "irrigation enterprises"; 1940 figures exclude 187,322 acres in "irrigation enterprises"; 1940 figures exclude 187,322 acres in "irrigation enterprises"; 1940 figures exclude 187,322 acres in "irrigation enterprises"; 1940 figures exclude 187,322 acres in "

State Table 2.-DRAINAGE

			ed and used lture, 1960	Ares	a by period drains	was establishe	·d	
Size of project (Based on area of agricultural land in project)	Number of projects		Served by two	Befor	e 1950	Area added 1950-1959		
,,		Total (acres)	or more projects (acres)	Projects reporting	Acres	Projects reporting	Acres	
All projects	16	55,496		16	55,4%			
500 to 999 acres	4	2,892		4	2,892			
1,000 to 1,999 acres	4	5,930		4	5,930			
2,000 to 4,999 acres	4	11,464		4	11,464			
5,000 to 9,999 acres	4	35,210		4	35,210			
10,000 to 19,999 acres					• • •			
20,000 to 49,999 acres								
50,000 to 99,999 acres								
100,000 or more acres								

State Table 3.-DRAINAGE PROJECTS, 1960,

		Area draine for agricul		Area by period drainage was established					
Type of organization	Number of projects	Total	Served by two	Before	1950	Area added 1950-1959			
		(Acres)	projects (acres)	Projects reporting	Acres	Projects reporting	Acres		
All projects	16	55,496		16	55,4%				
Drains owned by one landowner	3	2,638		3	2,638				
Cooperative or mutual drains	3	5,610		3	5,610				
Legally organized public drains	10	47,248		10	47,248				

State Table 4.-DRAINAGE PROJECTS, 1960,

		Area drained and used for agriculture, 1960			Area by period drainage was established					
Year of organization	Number of projects		Served by two	Befor	e 1950	Area added	Area added 1950-1959			
	projects	Total (acres)	or more projects (acres)	Projects reporting	Acres	Projects reporting	Acres			
All projects.	16	55,496	***	16	55,4%					
1950-1959							•••			
Prior to 1950.	16	55,4%		16	55,496		•••			

PROJECTS, 1960, BY SIZE

			0-1959	nstalled, 195	nlarged, or i	constructed, e	New works			1950-1959	and services,	rainage works	Cost of d
-	Other,	ря	Pun	nd dikes	Levees a	red drains	Tile or cov	itches	Open d	works	For new	tal	To
s	projects reportin	Number	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Frojects reporting	Dollars	Projects reporting	Dollars	Projects reporting
1		1	1			0.4	1	0.3	1	3,750	3	178,1%	15
	١,	1	1			0.4	1	0.3	1	3,000	2	14,297	4
1										750	1	10,229	3
												45,500	4
												108,170	4

BY TYPE OF ORGANIZATION

Cost of d	rainage works	and services,	1950-1959		New works constructed, enlarged, or installed, 1950-1959								
To	tal	For new	vorks	Open d	Open ditches Tile or covered drains Levees and dikes Fummps Ot								
Projects reporting	Dollars	Frojects reporting	Dollars	Frojects reporting	Length (milec)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number	projects reporting	
15	178,1%	3	3,750	1	0.3	1	0.4			1	1	1	
3	6,269	1	500	1	0.3								
2	20,297												
10	151,630	2	3,250			1	0,4			1	1	1	

BY YEAR OF ORGANIZATION

Cost of d	irainage works	and services,	1950-1959		Hew works constructed, enlarged, or installed, 1950-1959									
To	otal	For nev	w works	Open di	itches	Tile or cov	covered drains Levees an		nd dikes	Pu	mps	Other,	1	
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Frojects reporting	Length (miles)	Frojects reporting	Number	projects reporting		
15	178,196	3	3,750	1	0.3	1	0.4			1.	1	1		
15	178,196	3	3,750	1	0.3	1	0.4			1	1	1	.	

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

	Item and Census year	The State	Alamosa	Cone Jos	Crowley	Gunnison	Larimer	Logan
	AREA							
1	Approximate land areaacres 1960	66,485,760	460,800	812,160	513,920	2,072,320	1,672,960	1,169,280
2	Land in farmsacres 1959	38,787,312	429,526	574,943	424,904	251,640	770,520	1,088,862
3	Drainage projectsnumber 1960	16	1	2	2	1	1	2
4	1950	630	29	31	24	27	36	13
5	Total area in drainage projects 1	55,496	640	10,590	12,463	758	3,000	3,161
6	1950	623,976	26,086	53,151	52,294	3,514	9,267	13,020
7	Ares not used for agriculture or not drained acres served 1960							
8	Net area drained and used for agriculture acres served 1960	55,496	640	10,590	12,463	758	3,000	3,161
9	Drainage established before 1950 acres served 1960	55,496	640	10,590	12,463	758	3,000	3,161
10	Area added, 1950-1959 acres served 1960							
11	Area served by two or more projects acres served 1980					•••		
	PROJECTS, 1980, BY TYPE OF ORGANIZATION							
12	Drains owned by one landowner number of projects	3				1		
13	acres served ²	2,638				758		
14	Cooperative or mutual drainsnumber of projects	3					1	1
15	acres served ²	5,610					3,000	960
16	Legally organized public drainsnumber of projects	10	1	2	2			1
17	acres served ²	47,248	640	10,590	12,463	•••		2,201
	PROJECTS, 1960, BY YEAR STARTED							
18	1950-1959							
19	acres served ²							
20	Prior to 1950number of projects	16	1	. 2	2	1	1	2
21	acres served ² .	55,496	640	10,590	12,463	758	3,000	3,161
	DRAINAGE OPERATIONS, 1950-1959 ³							
22	Cost of dramage works and services	15	1	2	2	(4)	(4)	(4)
23	dollars	178,196	5,000	35,545	41,770	(4)	(4)	(4)
24	New drainage works constructed, enlarged, or installed	3				(4)		
25	dollars	3,750				(4)		l
26	Open ditches	1				(4)		
27	tength, miles	0.3				(4)		
28	Tile or covered drains	1						
29	length, miles	0.4						l
30	Levees or dikes							
31	length, miles							
32	Pumpe	1						
33	number of pumps	1						
34	Other (see text)	1						l
35			1					
	administrationprojects reporting	14	1	2	2		(4)	(4)
36	dollars	174,446	5,000	35,545	41,770		(4)	(4)

land served by two or more projects counted only once.
Acres served by two projects are included for each project. See text.
Includes projects taken over by another project prior to 1960. See text.
Lineluded in State total only.

County Table 1. - DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

Item and Consus year	Мевз	Montrose	Otern	Prowers	Rio Grand e	Saguache	All other counties 1
AREA							
1 Approximate land area	2,119,680	1,432,960	°810,880	1,040,640	586,240	2,012,160	36,108,160
2 Land in farms	713,603	585,145	484. ,044	424,330	206,064	502,599	20,778,262
3 Drainage projects	1	1		2	2	1	
4 1950	14	18	17	41	24	29	359
5 Total area in drainage projects 5	574	1,650	10,020	8,600	2,440	1,600	
6 1950	100,447	29,365	39,708	64,860	99,829	47,888	94,547
7 Area not used for agriculture or not drained acres served 1960							
8 Not area drained and used for agriculture, acres served 1960	574	1,650	10,020	8,600	2,440	1,600	
9 Drainage established before 1950 acres served 1960	%	1,650	10,020	8,600	2,440	1,600	
10 Area added, 1950-1959 acres served 1960							
11 Area served by two or more projects acres served 1960							
PROJECTS, 1960, BY TYPE OF ORGANIZATION							
12 Drains owned by one landowner number of projects .				1	1		
13 acres served ⁴ .				600	1,280		
14 Cooperative or mutual drainsnumber of projects		1					
15 acres served		1,650					
16 Legally organized public drainsnumber of projects	1		2	1	1	1	
17 acres served ⁴	574		10,020	8,000	1,160	1,600	
PROJECTS, 1960, BY YEAR STARTED							
18 1950-1959							
19 acres served ⁴							
20 Pnor to 1950number of projects	1	1	. 2	2	2	1	
21 acres served 4. –	574	1,650	10,020	8,600	2,440	1,600	
DRAINAGE OPERATIONS, 1950-1959 ⁶							
22 Cost of drainage works and servicesprojects reporting	1		2	(6)	(°)	1	
23 dollars	9,500		32,315	(6)	(°)	5,000	
New drainage works constructed, enlarged, or installed	1		1				
95 dollars	2,500		750				
26 Open ditches							
27 length, miles							
28 Tile or covered drainsprojects reporting	1						
29 length, miles	0.4						
30 Levees or dikes							
31 length, miles							
32 Pumpe	1						
number of pumpe	1						
34 Other (see text)			1				
35 Cost of maintenance, operation, repair, and						_	
administrationprojects reporting	1		2	(6)	(*)	1	•••
36 dollars	7,000		31,565	(6)	(6)	5,000	•••

Includes Adams, Arapahoe, Archuleta, Bent, Boulder, Chaffee, Costilla, Custer, Delta, Denver, Dolores, Eagle, El Paso, Fremont, Garfield, Grand, Huerfano, Jackson, Jefferson, La Plata, Lam Animas, Mcffet, Montecuma, Mcrgan, Oursy, Pitkin, Pueblo, Rio Bianco, Routt, Summit, Washington, and Weld counties.

"The excess of farm acreage over approximate land area is due to the fact that the entire acreage of a farm is tabulated as in the county in which the headquarters is located, even though a part of the farm may be cituated in an adjoining county.

"Land served by two orne projects counted only once."

"Acres served by two projects are included for each project. See text."

"Includes projects taken over by another project prior to 1960. See text."

"Includes projects taken over by another project prior to 1960. See text."



State Table 1.-DRAINAGE PROJECTS-NUMBER, AREA, COST, AND WORKS, 1920 TO 1960

See text for comparability of data

	text for comparability of di	,			
ltem .	1960 Census	1950 Census	1940 Census	1930 Census	1920 Census
AREA			SCHOOL	0.01000	оеньца
AREA Approximate land area	1,265,920	1,265,920	1 245 020	3 257 400	
			1,265,920	1,257,600	1,257,60
Annuare projects.	762,526 60	851,291 1 ₂	895,507	900,815	944,51
	356,702			•••	
otal area in drainage projects		352,547	395,014		
Area not used for agriculture or not drained	15,780 340,922	NA	NA 2	•••	
Net area drained and used for agriculture		NA.	² 394,164		
Draunage established 10 years or more before Census date	340,066 856	NA.	NA		,
Drainage established within 10 years of Census date	600	NA.	NA NA		
Area served by two or more projects	600	NA.	458,548	•••	
PROJECTS BY TYPE OF ORGANIZATION					
rains owned by one landownernumber of projects		(1)			
acros served		(1)			
coperative or mutual drainsnumber of projects	1	(1)			
acres served,	780	(1)			
egally organized public drains	59	12			
acres served	340,742	1352,547	395,014		
PROJECTS BY YEAR STARTED					
urted 10 years or more before Census date	50	NA	NA NA	•••	
scres served,	318,700	NA	280,632	•••	
arted within 10 years of Census datenumber of projects	10	NA	N.A.		
scres served	22,822	NA	114,382	•••	
OPERATIONS, 10-YEAR PERIOD PRECEDING CENSUS DATE					
ost of drainage works and services	48	2	NA.		
dotlars	476,944	173,300	NA.		
ew drainage works constructed, enlarged, or installedprojects reporting	33	31	NA.		
cost, dellars	399,511	³ 3,326	NA.		
Open ditches projects reporting	33	1	NA.		
length, miles	215.7	2	NA.		
Tile or covered drains			NA.		
length, mules			NA.		
Levees or dikes projects reporting			NA.		
length, miles			NA.		
Pumps projects reporting		NA.	NA.		
number of pumps		NA.	NA NA		
Other (see text) projects reporting		NA.	NA.		
ost of maintenance, operation, repair, and administration projects reporting	25	2	NA.		
dollars	77,433	169,974	NA.		
	-				
STATUS ON CENSUS DATE					
apital investmentdollars	NA .	NA	454,883		• •
hysical works: Open disches	NA NA	NA .	1,482.3		
Tile drains length, miles	NA .	NA.			
Levees and dikeslength, miles	NA.	NA			

NA Not available.

In 1950 all drains within a county were counted as one combined project. See text.

Cost of new works for lands not previously drained.

State Table 2.-DRAINAGE

				ed and used lture, 1960	Are	s by period drain	age was establish	ed
	Size of project (Based on area of agricultural land in project)	Number of projects		Served by two	Befor	re 1950	Area added 1950-1959	
	(10000 on aloo of Agrana and 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1		Total (scres)	or more projects (acres)	Projects reporting	Acres	Projects reporting	Acres
1	All projects	60	341,522	1,200	59	340,666	2	856
2	500 to 999 acres	18	11,961	600	17	11,371	1	590
3	1,000 to 1,999 acres	24	31,948		24	31,682	1	266
4	2,000 to 4,999 acres	14	51,448	600	14	51,448		
5	5,000 to 9,999 acres	1	6,346		1	6,346		
6	10,000 to 19,999 acres	1	11,700		1	11,700		
7	20,000 to 49,999 acres							
8	50,000 to 99,999 acres							
9	100,000 or more acres	12	228,119		2	228,119		

The area within each county served by drains for which there is now no active management, was counted as one combined project. See text.

State Table 3.-DRAINAGE PROJECTS, 1960.

		Ares draine for agricul		Area by period drainage was established				
Type of organization	Number of projects	Total	Served by two	Before	1950	Ares added 1950-1959		
	projecto	(acres)	or more projects (scres)	Projects reporting	Acres	Frojects reporting	Acres	
All projects	60	341,522	1,200	59	340,666	2	8	
Drains owned by one landowner								
Cooperative or mutual drains	1	780		1	780			
Legally organized public drains	59	340,742	1,200	58	339,886	. 2		

State Table 4.-DRAINAGE PROJECTS, 1960,

		Area draine for agricul		Area by period drainage was established					
Year of organization	Number of projects		Served by two	Befor	e 1950	Area added	1950-1959		
	projects	Total (acres)	or more projects (acres)	Projects reporting	Acres	Projects reporting	Acres		
All projects	60	341,522	1,200	59	340,666	2	856		
1950-1959	10	22,822		9	22,232	1	590		
Prior to 1950.	50	318,700	1,200	50	318,434	1	266		

PROJECTS, 1960, BY SIZE

			0=1959	nstalled, 195	nlarged, or i	onstructed, e	New works			1950-1959	and services,	rainage works	Cost of d
-	other,	Trumps		Levees and dikes		Tile or covered drains		Open ditches		works	For new	tal	Tot
	projects reporting	Number	Frojects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting
								215.7	33	399,511	33	476,944	48
								46.3	12	61,653	1.2	74,085	15
								74.5	14	113,281	14	141,869	20
								94.9	7	224,577	7	251,237	11
												2,500	ı
												7,253	1

BY TYPE OF ORGANIZATION

Cost of d	rainage works	and services,	1950-1959			New works	enlarged, or	installed, 195	0-1959			
To	Total For new works		works	Open ditches		Tile or cover	Tile or covered drains		Levees and dikes		Fumps	
Projects reporting	Dollars	Frojects reporting	Dollars	Frojects reporting	Length (miles)	Projects reporting	Length (miles)	Frojects reporting	Length (miles)	Projects reporting	Number	projects reporting
48	476,944	33	399,511	33	215.7							
		•••										
1	4,390	1	3,000	1	2.0							
47	472,554	32	396,511	32	213.7							

BY YEAR OF ORGANIZATION

Cost of d	irainage works	and services,	1950-1959			New works c	onstructed, e	nlarged, or i	nstalled, 195	0-1959		
To	otal	For ne	works	Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other,
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Frojects reporting	Length (miles)	Projects reporting	Number	projects reporting
48	476,944	33	399,511	33	215.7							
10	267,716	10	250,235	10	98.6							
38	209,228	23	149,276	23	117.1							

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

	ftem and Census year	The State	Kent	Sussex		ltem and Census year	The State	Kent	Sussex
	AREA					PROJECTS, 1960, BY YEAR STARTED			
1	Approximate land areaacres 1960	1,265,920	380,800	605,440	18	1950-1959number of projects	10	3	7
2	Land in farmsacres 1959	762,526	251,934	380,942	19	acres served ²	22,822	8,996	13,826
3	Drainage projectsnumber 1960	60	7	53	20	Prior to 1950number of projects	50	4	46
4	1950	2	1	1	21	acres served ²	318,700	125,793	192,907
						DRAINAGE OPERATIONS, 1950-1959 ³			
5	Total area in drainage projects	356,702	134,789	221,913	22	Cost of drainage works and servicesprojects reporting	48	6	42
6	1950	352,547	133,129	219,418	23	dollars	476,944	111,546	365,398
7	Area not used for agriculture or not drained acres served 1960	15,780		15,780	24	New drainage works constructed, enlarged, projects reporting	33	6	27
8	Net area drained and used for agriculture acres served 1960	340,922	134,789	206,133			399,511	106,156	293,355
9	Drainage established before 1950 acres served 1960	340,066	134,789	205,277	25		339,311	6	27
10	Area added, 1950-1959 acres served 1960	856		856	26		215.7	45.6	170.1
11	Area served by two or more projects acres served 1960	600		600	27				
					28			•••	
					29		• • • •		
	PROJECTS, 1960, BY TYPE OF ORGANIZATION				30				
12	Drains owned by one landowner number of projects				31			•••	
13	acres served ²				32			•••	•••
14	Cooperative or mutual drains	1	1		35				•••
15	acres served ²	780	780		34				
16	Legally organized public drainsnumber of projects	59	6	53	35	Cost of maintenance, operation, repair, and administrationprojects reporting	25	2	23
17		340,742	134,009	206,733	36	dottars	77,433	5,390	72,043
				,	1			<u> </u>	

Land served by two or more projects counted only once.

Acres served by two projects are included for each project. See text.

Includes projects taken over by another project prior to 1960. See text.

State Table 1. - DRAINAGE PROJECTS-NUMBER, AREA, COST, AND WORKS, 1920 TO 1960

[See text for comparability of data]

	to the companion of the				
Item	1960 Census	1950 Census	1940 Census	1930 Census	1920 Census
AREA					
Approximate land areaacres	34,721,280	34,727,680	34,727,680	35,111,040	35,111,040
Land in farmsacres	15,236,521	16,527,536	8,337,708	5,026,617	6,046,691
Drainage projectsnumber	516	1,889	101	NA.	NA NA
Total area in drainage projects	9,222,517	6,083,676	5,699,022	5,954,934	1,637,073
Area not used for agriculture or not drained	4,367,190	NA NA	NA.	NA.	NA.
Not area drained and used for agriculture	4,855,327	NA NA	¹ 614,220	1398,200	NA.
Drainage established 10 years or more before Census date	4,306,371	NA NA	NA NA	NA NA	NA.
Drainage established within 10 years of Census dateacres served	548,956	NA.	NA.	NA.	NA.
Area served by two or more projects	1,353,192	1,103,349	764,424	1,418,693	122,868
PROJECTS BY TYPE OF ORGANIZATION					
Drains owned by one landownernumber of projects	388	2 ₁₂₂	NA.	NA.	NA NA
acres served	1,836,408	2385,291	22,640	105,533	118,890
Cooperative or mutual drains	36	213			
acros served	274,431	2 _{118,476}			
Legally organized public drains	92	²103	NA.	NA.	NA.
acres served,,,	4,237,652	² 5,430,151	5,676,382	5,849,401	1,518,183
		, ,			
PROJECTS BY YEAR STARTED					
Started 10 years or more before Census datenumber of projects	319	² 107	NA.	NA.	NA NA
acros served	5,520,054	² 5,432,410	5,678,886	5,438,486	6,970
Started within 10 years of Census datenumber of projects	197	2131	NA NA	NA.	NA.
artes served	828,437	2501,508	20,136	516,448	1,630,103
OPERATIONS, 10-YEAR PERIOD PRECEDING CENSUS DATE					
Cost of drainage works and services	450	² 207	NA.	NA.	NA NA
dollars	91,627,636	18,602,511	NA NA	NA.	NA NA
New drainage works constructed, enlarged, or installed	338	³ 63	NA.	NA.	NA.
cost, dollars	68,012,516	32,707,207	NA.	NA NA	NA NA
Open ditches,, projects reporting	327	145	NA.	NA.	NA.
leagth, miles	10,554.6	2,263	NA.	NA.	NA.
Tile or covered drains	9	4	NA.	NA NA	NA.
length, miles	23.2	16	NA.	NA.	NA NA
Levees or dikes	119	97	NA NA	NA.	NA.
length, miles	1,198.1	661	NA.	NA NA	N.A.
Pumps projecte reporting	139	NA.	NA.	NA.	NA.
number of pumps	548	NA.	NA.	NA NA	NA.
Other (see text)	28	NA.	NA NA	NA NA	NA.
Cost of maintenance, operation, repair, and administration projecte reporting	312	NA NA	NA NA	NA NA	NA NA
dollars	23,615,120	15,895,304	NA	NA NA	NA.
STATUS ON CENSUS DATE					
Capital investmentdollars	NA.	NA.	43,356,692	45,487,795	13,846,807
Physical works: Open ditches. length, miles.	NA.	NA.	5,022.1	5,112.6	1,990.8
Tile drains	NA NA	NA NA	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	3,112.0	1,770.0
Levees and dikes. length, miles	NA NA	NA NA	470.6	718.4	66.2
Pumping unitsnumber of units	NA.	² 354	68	37	NA
	Pol	334		37	NA.

NA Not available.

NAO tully comparable. See text.

2020 figures exclude 1,651 projects and 149,758 acres in "irrigation enterprises."

3cost of new works for lands not previously drained.

State Table 2.-DRAINAGE

				ed and used lture, 1960	Area by period drainage was established					
	Size of project (Based on area of agricultural land in project)	Number of projects		Served by two	8ef o	re 1950	Area added 1950-1959			
			Total (acres)	or more projects (acres)	Projects reporting	Acres	Projects reporting	Acres		
1	All projects.	516	6,348,491	2,846,356	398	5,783,196	152	565,295		
2	500 to 999 acres	148	101,911	51,503	99	69,467	53	32,444		
3	1,000 to 1,999 acres	109	147,268	69,044	78	103,931	40	43,337		
4	2,000 to 4,999 acres	107	340,809	158,109	85	253,420	28	87,389		
5	5,000 to 9,999 acres	66	473,168	158,720	57	372,429	15	100,739		
6	10,000 to 19,999 acres	38	531,642	224,744	35	468,666	8	62,976		
7	20,000 to 49,999 acres	31	851,598	290,451	28	768,398	4	83,200		
8	50,000 to 99,999 acres	13	909,054	257,828	12	757,044	3	152,010		
9	100,000 or more acres	4	2,993,041	1,635,957	4	2,989,841	1	3,200		

State Table 3.-DRAINAGE PROJECTS, 1960,

		Area draine for agricul		Area by period drainage was established				
Type of organization	Number of projects	Total	Served by two	Before 1950		Area added	1950-1959	
	p. 0,000	(acres)	or more projects (acres)	Projects reporting	Acres	Projects reporting	Acres	
1 All projects	516	6,348,491	2,846,356	398	5,783,196	152	565,295	
2 Drains owned by one landowner	388	1,836,408	616,229	285	1,426,544	129	409,864	
3 Cooperative or mutual drains	36	274,431	113,125	24	184,798	18	89,633	
4 Legally organized public drains	92	4,237,652	2,117,002	89	4,171,854	5	65,798	

State Table 4.-DRAINAGE PROJECTS, 1960,

		Ares dreine for agricul		Are	a by period drain	age was establishe	d
Year of organization	Number of projects		Served by two	Before	e 1950	Area edded	1950-1959
	projects	Total (acres)	or more projects (acres)	Projects reporting	Acres	Projects reporting	Acres
All projects.	516	6,348,491	2,846,356	398	5,783,196	152	565,29
1950-1959	197	828,437	321,438	79	326,869	132	501,568
Prior to 1950.	319	5,520,054	2,524,918	319	5,456,327	20	63,72

PROJECTS, 1960, BY SIZE

		Cost of drainage works and services, 1950-1959 New works constructed, enlarged, or installed, 1950-1959									Cost of drainage works and services, 1950-1959					
	Other.	nd dikes Pumps			Tile or covered drains Levees and			For new works Open ditches		For new	tal	Total				
	projects reporting	Number	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting			
8	28	548	139	1,198.1	119	23.2	9	10,554.6	327	68,012,516	338	91,627,636	450			
4	4	86	37	115.4	29	2.6	4	1,004.6	96	1,226,231	100	2,728,241	133			
8		89	36	114.9	24	0.1	1	1,702.7	79	1,344,155	80	2,657,519	98			
5		129	36	249.2	37	20.4	3	1,999.4	79	2,996,804	81	5,432,495	95			
2		32	12	90.7	13	0.1	1	934.6	31	1,778,360	31	4,040,408	54			
4	4	136	7	85.0	6			674.4	20	2,156,192	21	4,921,366	32			
		21	6	82.8	7			1,529.0	14	2,955,627	16	6,705,785	23			
4	4	31	4	52.0	2			2,390.9	6	2,701,107	7	6,347,074	11			
1		24	1	408.1	1			319.0	2	52,854,040	2	58,794,748	4			

BY TYPE OF ORGANIZATION

Cost of d	rainage works	and services,	New works constructed, enlarged, or installed, 1950-1959										
Total		Total For new works			itches	Tile or cove	Tile or covered drains Levees		nd dikes	Pumps		Other,	
Projects reporting	Dollars	Frojects reporting	Dollars	Frojects reporting	Length (miles)	Projects reporting	Length (miles)	Frojects reporting	Length (miles)	Projects reporting	Number	projects reporting	
450	91,627,636	338	68,012,516	327	10,554.6	9	23.2	119	1,198.1	139	548	26	
351	20,403,349	296	12,781,246	292	9,564.4	7	23.0	110	763.3	123	492	21	
29	795,766	23	485,027	21	173.4	2	0.2	7	25.7	6	9	4	
70	70,428,521	19	54,746,243	14	816.8			2	409.1	10	47	3	

BY YEAR OF ORGANIZATION

Cost of d	sinage works and services, 1950-1959 New works constructed, enlarged, or installed, 1950-1959												
Total		For new works Open ditches Tile or covered		ered drains	ed drains Levees and dikes			Pumps					
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Frojects reporting	Length (miles)	Projects reporting	Number	projects reporting	
450	91,627,636	338	68,012,516	327	10,554.6	9	23.2	119	1,198.1	139	548	28	
197	8,318,425	189	6,316,478	187	5,306.0	4	20.3	59	333,0	56	174	18	
253	83,309,211	149	61,696,038	140	5,248.6	5	2.9	60	865.1	83	374	10	
													L

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

	Item and Census year	The State	Baker	Brevard	Broward	Charlotte	Collier	Dade	De Soto
	AREA								
	AREA Approximate land areaacros 1980	34,721,280	374,400	660,480	779,520	451,200	1,300,480	1,314,560	459,520
2	Land in farmsacres 1959	15,236,521	43,662	264,457	80,821	235,056	316,424	128,550	294,261
2	Drainage projects	516	2,002	14	25	6	510,424	20,550	24
	Drainage projects	1,889.	2	93	55	14	5	16	65
1	Total area in drainage projects	9,222,517	2,274	659,840	314,520	120,140	34,400	647,680	170,058
0	1950	6,083,676	2,274	100,781	740,564	106,791	350,491	1,097,162	26,214
~	Area not used for agriculture or not drained acres served 1980	4,367,190	2,214	478,322	140,520	2,200	330,431	376,680	2,720
,	Net area drained and used for agriculture acres served 1980	4,855,327	2,274	181,518	174,000	117,940	34,400	271,000	167,338
9	Drainage established before 1950 acres served 1960	4,306,371	2,274	147,708	174,000	94,020	1,000	271,000	143,838
10	Area edded, 1950-1959	548,956	2,214	33,810	174,000	23,920	33,400		23,500
11		1,353,192			89,204	2,,20		271,000	25,500
11	Area served by two or more projects acres served 1960	1,353,192			87,204		***	2/1,000	•••
	PROJECTS, 1960, BY TYPE OF ORGANIZATION								
12	Drains owned by one landowner number of projects	388	2	11	20	5	5	4	16
13	acres served ²	1,836,408	2,274	116,410	29,949	114,300	3 4,400	23,493	142,688
14	Cooperative or mutual drains	36					•••	1	2
15	acres served ²	274,431						700	12,500
16	Legality organized public drainsnumber of projects	92		3	5	1		4	6
17	acres served ²	4,237,652		65,108	237,800	3,640		550,789	12,150
	PROJECTS, 1960, BY YEAR STARTED								
16	1950-1959 number of projects	197		4	5	2	4	2	4
19	acres served ²	828,437		32,970	8,891	23,920	20,640	1,280	13,890
20	Prior to 1950number of projects	319	2	10	20	4	1	7	20
21	acres served ²	5,520,054	2,274	148,548	258,858	94,020	13,760	573,702	153,448
	DRAINAGE OPERATIONS, 1950-1959								
22	Cost of drainage works and services projects reporting	450	2	13	21	5	5	10	18
23	dollars	91,627,636	(4)	5,003,057	6,914,162	36,500	96,222	5,038,389	210,500
24	New drainage works constructed, enlarged, or installedprojects reporting	338	2	10	15	3	5	5	15
25	dollars	68,012,516	(4)	3,030,091	5,769,650	31,000	56,499	3,302,347	103,750
26	Open ditchesprojects reporting	327	2	10	13	3	5	5	15
27	length, miles	10,554.6	(4)	2,179.1	180.1	50.0	139.5	67.8	589.0
28	Tite or covered drainsprojects reporting	9		1					
29	length, miles	23.2		2.0					• • • •
30	Levees or dikes	119		7	6		2	3	
31	length, miles	1,198.1		84.6	63.8		33.0	16.8	
32	Pumpeprojects reporting	139		7	12		2	3	
33	number of pumps	548		29	34		14	5	
34	Other (see text)projects reporting	28						1	
35	Cost of maintenance, operation, repair, and administrationprojects reporting	312	1	10	19	3 .	2	9	14
36	dollars	23,615,120	(4)	1,972,966	1,144,512	5,500	39,723	1,736,042	106,750

land served by two or more projects counted only once.

Acres served by two projects are included for each project. See text.

Includes projects taken over by another project prior to 1960. See text.

included in State total only.

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

	Item and Consus year	Dixie	Duval	Flagler	Glades	Hardee	Hendry	Highlands	Hillsborough
	AREA								
1	Approximate land areaacres 1960	440,320	497,280	309,120	477,440	403,200	759,680	666,240	1 _{665,600}
2	Land in farms	168,944	78,130	172,620	332,397	325,717	641,483	415,854	1773,468
5	Drainage projectsnumber 1960	3	1	3	33	13	36	34	23
4	1950	1	3	14	17	239	11	21	140
5	Total area in drainage projects 2 scres served 1960	15,360	57,600	62,996	477,440	48,325	759,680	442,875	116,605
6	1950	640	57,662	120,065	304,487	27,883	423,064	163,612	84,463
7	Area not used for agriculture or not drained acres served 1960		3,720	27,191	267,846		376,182	107,352	13,300
9	Not area drained and used for agriculture acres served 1960	15,360	53,880	35,805	209,594	48,325	383,498	335,523	103,305
9	Drainage established before 1950 acres served 1960	640	53,880	35,805	208,480	45,375	356,115	275,150	83,087
10	Area added, 1950-1959 acres served 1960	14,720			1,114	2,950	27,383	60,373	20,218
11	Area served by two or more projects acres served 1960	•••			119,242		120,844	125,601	4,550
									,
	PROJECTS, 1960, BY TYPE OF ORGANIZATION								
	Drains owned by one landowner number of projects	•••	•••	•••	27	6	25	28	14
13	acres served	•••		•••	74,403	8,215	138,726	220,160	22,899
14	Cooperative or mutual drains	2	•••		1	5	4	4	1
15	acres served", .	14,720	•••	•••	2,000	22,110	53,773	62,755	20,960
16	Legally organized public drains	1	1	3	5	2	7	2	8
17	acres served	640	53,880	35,805	268,227	18,000	321,873	216,901	63,996
	PROJECTS, 1960, BY YEAR STARTED								
18	1950-1959 number of projects	2			12	3	23	16	13
19	acres served ⁸	14,720			24,156	2,950	116,421	91,010	20,078
20	Prior to 1950number of projects	1	1	3	21	10	13	18	10
21	acres served ³	640	53,880	35,805	320,474	45,375	397,951	408,806	87,777
	DRAINAGE OPERATIONS, 1950-1959								
22	Cost of drainage works and servicesprojects reporting	3		1	34	5	37	33	18
23	dollars	13,267		10,000	3,794,191	36,965	3,762,944	2,502,931	503,579
24	New drainage works constructed, enlarged,								
	or installedprojects reporting	2	•••	••• 1	26	4	29	31	16
25	dolliars	11,800	•••	•••	2,857,054	27,865	2,911,096	1,863,935	308,579
26	Open ditchesprojects reporting	2	•••	•••	25	4	29	31	16
27	length, miles	7.9	•••	•••	604.0	45.5	451.0	777.3	217.0
28	Tile or covered drainsprojects reporting	•••	•••		•••	•…	•••	1	•••
29	longth, miles	•••		•••		•••	•••	0.1	
30	Levees or dikes		•••	•••	13		17	11	1
81	length, miles		•••	•••	92.4		123.5	71.5	3.0
32	Pumpeprojects reporting		•••	•••	1.3	•••	15	9	2
33	number of pumps	***			29	• • • •	37	27	8
34	Other (see text)	•••			2		2	7	•••
35	Cost of maintenance, operation, repair, and administrationprojects reporting	3		1	26	2	27	16	4
36	dollars	1,467		10,000	937,137	9,100	851,848	638,996	195,000

The excess of farm screage over approximate land area is due to the fact that the entire screage of s farm is tabulated as in the county in which the hesiquarters is located, even though a part of the farm may be situated in an adjoining county.

Land served by two or none projects counted only one counted only one.

Acres served by two projects are included for each project. See text.

'Annual exprojects Vasken over by monther project prior to 1900. See text.

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959 [See text for comparability of 1960 and 1950 data]

Item and Census year	Indian	Lafayette	T.a.ke	Tee	Town			
item and Census year	River	Larayette	Lake	Lee	Levy	Manatee	Marion	Martin
AREA								
Approximate land area	327,040	347,520	637,440	503,040	705,920	440,320	1,034,880	357,76
Land in farms	197,751	107,549	329,186	142,509	307,766	252,812	538,857	126,61
Drainage projects	17	1	15	20	3	16	1	4
1950	188		23	74		292	4	1
Total area in drainage projects 1	318,640	1,000	13,174	244,088	1,600	76,838	2,500	341,50
1950	123,333		1,341	51,740		78,691	687	217,38
Area not used for agriculture or not drained , scres served 1960	180,796			129,030		1,820		123,74
Net area drained and used for agriculture acres served 1960	137,844	1,000	13,174	115,058	1,600	75,018	2,500	217,75
Drainage established before 1950 acres served 1960	122,745		6,074	83,618		74,039	2,500	183,52
Area added, 1950-1959 acres served 1960	15,099	1,000	7,100	31,440	1,600	979		34,23
Area served by two or more projects acres served 1980	29,580					1,150		109,88
PROJECTS, 1960, BY TYPE OF ORGANIZATION								
Drains owned by one landowner number of projects	13	1	13	16	2	1	1	40
acres served ²	67,519	1,000	11,074	83,770	1,100	365	2,500	156,80
Cooperative or mutual drainsnumber of projects			2	2				
acres served ² ,			2,100	8,640				21,220
Legally organized public drainsnumber of projects	4			2	1	15		:
acres served ²	99,905			22,648	500	75,803		158,903
PROJECTS, 1960, BY YEAR STARTED								
	6	1	8	3	3	1		26
acres served ²	10,860	1,000	4,900	31,440	1,600	979		72,716
Prior to 1950number of projects	11		7	17		15	1	19
scres served ² .	156,564		8,274	83,618		75,189	2,500	264,209
DRAINAGE OPERATIONS, 1950-1959 ⁵								
Cost of drainage works and servicesprojects reporting	16	1	14	14	3	13	,	43
dollars	1,758,101	(4)	241,700	340,271	14,100	333,447	(4)	2,982,443
New drainage works constructed, enlarged,	2,750,202	` '	241,700	340,271	14,100	7,444		2,302,443
or installed	9	1	14	8	3	1	1	41
dollars	362,200	(4)	170,240	120,915	11,750	2,500	(4)	2,052,065
Open ditchesprojects reporting	9	1	14	8	3	1	1	41
length, miles	173.0	(4)	140.5	81.5	7.1	2.0	(4)	1,571.9
Tile or covered drainsprojects reporting			1	4				
length, miles			0.1	20.7				
Levees or dikes	5		8	4	1		1	19
length, miles	52.0		21.3	19.0	1.5		(4)	142.8
Pumpeprojects reporting	6		7	1	1			12
number of pumps	24		10	7	1			130
Other (see text)			•••	1	***			7
Cost of maintenance, operation, repair, and administrationprojects reporting	12	1	10	10	3	12	1	25
dollars	1,395,901	(4)	71,460	219,356	2,350	330,947	(4)	930,378
						, ,		

tand served by two or more projects counted only once.

*Acres served by two projects are included for each project. See text.

*Included projects taken over by another project prior to 1960. See text.

*Included in State total only.

FLORIDA 109

County Table 1. - DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

_									
	Item and Census year	Monroe	Nasssu	Okeechobee	Orange	Osceols	Palm Beach	Pasco	Pinellas
	AREA								
1	Approximate land area	636,160	416,000	499,200	586,240	848,000	1,265,920	480,640	168,960
2	Land in farms	904	87,225	367,832	349,007	814,959	372,408	309,807	57,052
3	Drainage projectsnumber 1960	1	2	15	10	21	84	8	1
4	1950	1	2	3	19	7	167	8	12
5	Total area in drainage projects 1	126,400	12,020	499,200	372,380	848,000	1,097,920	17,400	168,960
6	1950	115,200	11,523	85,700	10,372	105	1,133,278	20,310	29,097
7	Area not used for agriculture or not drained acres served 1960,	126,400		382,362	305,600	680,085	199,200		81,160
8	Net area drained and used for agriculture acres served 1960	(2)	12,020	116,838	66,780	167,915	898,720	17,400	87,800
9	Drainage established before 1950 acres served 1960		11,520	112,241	62,300	92,600	898,720	16,800	28,800
10	Area added, 1950-1959 acres served 1960		500	4,597	4,480	75,315	• · · ·	600	59,000
11	Area served by two or more projects acres served 1960			13,940	• • • •		383,133		
	PROJECTS, 1960, BY TYPE OF ORGANIZATION								
12	Drains owned by one landowner number of projects		1	13	7	19	66	7	***
13	acres served ³		500	77,938	7,120	167,315	163,506	16,750	
14	Cooperative or mutual drains number of projects					1	4		***
15	acres served ³			• • • • • • • • • • • • • • • • • • • •		600	7,080		
16	Legally organized public drainsnumber of projects	1	1	2	3	1	14	1	1
17	acres served ³	(2)	11,520	54,980	59,660		1,132,072	650	87,800
	PROJECTS, 1960, BY YEAR STARTED								
16	1950-1959		1	9	6	11	15	1	1
19	acres served ³		500	14,477	6,080	67,200	90,436	600	87,800
20	Prior to 1950, number of projects	1	1	6	4	10	69	7	***
21	acres served ³	(2)	11,520	118,441	60,700	100,715	1,212,222	16,800	• • •
	DRAINAGE OPERATIONS, 1950-1959 ⁴								
22	Cost of drainage works and services	1	1	16	8	21	77	5	1
23	dollers	11,500	(5)	307,396	571,388	1,005,910	51,189,151	40,439	512,000
24	New drainage works constructed, enlarged, or installedprojects reporting		1	11	6	16	39	4	1
25	dollars		(5)	92,423	32,558	664,238	42,250,732	14,237	75,000
26	Open ditchesprojects reporting		1	11	6	16	31	4	1
27	length, miles		(5)	126.7	36.6	1,452.3	711.3	7.5	33.0
28	Tile or covered drainsprojects reporting					3			
29	length, miles					0.3			
30	Levees or dikesprojects reporting			2		7	11	2	
31	length, miles			11.0		16.0	382.3	12.1	
32	Pumpsprojects reporting			3		6	32		
33	number of pumps			5	,	31	127		
34	Other (see text)			2		1	8		•••
35	Cost of maintenance, operation, repair, and administration	1	1	11	3	16	74	2	1
36	dollars,,,	11,500	(5)	214,973	538,830	341,672	8,938,419	26,202	437,000
					1				

Hand served by two or more projects counted only once.

Fintercounty project with no benefited land in this county in 1960. See text.

Acres served by two projects are included for each project. See text.

Fincludes projects taken over by another project prior to 1960. See text.

Fincludes in State total only.

County Table 1. –DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

_	Item and Census year	Polk	Putnam	St. Johns	St. Lucie	Sarasota	Seminole	Sumter	Volusis	All other counties1
	AREA									
1	Approximate land areaacres 1960	1,191,040	513,920	389,760	376,320	338,560	205,440	359,040	713,600	1,591,040
2	Land in farmsacres 1959	1,060,384	222,516	91,308	306,293	165,648	210,908	197,513	262,897	777,638
8	Drainage projectsnumber 1980	21	9	4	13	11	3	9	4	
4	1950	61	16	50	165	47	43	8	10	17
5	Total area in drainage projects 2	412,127	46,687	16,655	376,320	91,210	56,540	62,297	89,268	
6	1950	133,575	61,394	24,137	184,035	77,599	13,534	24,876	78,205	1,405
7	Area not used for agriculture or not drained acres served $1960\ldots$	245,480			34,800	7,500	46,300		26,880	
е	Net area drained and used for agriculture acres served 1960	166,647	46,687	16,655	341,520	83,710	10,240	62,297	62,388	
9	Drainage established before 1950 acres served 1960	129,283	42,437	15,526	341,520	65,480	10,240	51,647	62,388	
10	Ares added, 1950-1959 acres served 1960	37,364	4,250	1,129		18,230		10,650		
11	Area served by two or more projects acres served 1960	3,360			79,009	2,690				
	PROJECTS, 1960, BY TYPE OF ORGANIZATION									
12	Drains owned by one landowner number of projects	13	3	2	10	7		6		
13	acres served ³	78,408	3,040	1,129	33,310	20,920		14,425		
14	Cooperative or mutual drainsnumber of projects	1	2			1		1	1	
15	acres served ³	8,960	3,775			29,000		3,000	538	
16	Legally organized public drainsnumber of projects	7	4	2	3	3	3	2	3	
17	acres served ³ .,	83,303	39,872	15,526	392,259	36,480	10,240	44,872	61,850	
	PROJECTS, 1960, BY YEAR STARTED									
18	1950-1959number of projects	4	4	2		7		5		
19	acres served ³	32,364	4,890	1,129		20,920		7,620		
20	Prior to 1950 number of projects	17	5	2	13	4	3	4	4	
21	acres served ³ .	138,307	41,097	15,526	425,569	65,480	10,240	54,677	62,388	
	DRAINAGE OPERATIONS, 1950-1959 ⁴									
22	Cost of drainage works and servicesprojects reporting	13	7	4	13	8	3	7	3	
23	dollars	524,894	94,517	193,319	2,486,566	730,608	55,750	43,539	55,590	
24	New drainage works constructed, enlarged, or installedprojects reporting	6	5	3	10	7		7		
25	dollars	367,400	51,462	32,800	892,483	442,6081		42,239		
26	Open ditchesprojects reporting	6	5	3	g	7		7		
27	length, miles	47.8	47.1	14.1	185.5	530.0		59.0		
28	Tile or covered drainsprojects reporting									
29	length, miles									
30	Levees or dikesprojects reporting	3			1					
31	length, miles	13.5			35.0					
32	Pumpsprojects reporting	2			7			1		
33	number of pumps	4			25			1		
34	Other (see text)projects reporting		1		2					
35	Cost of maintenance, operation, repair, and administration projects reporting	9	3	2	12	1	3	1	3	
36	dollars	157,494	43,055	160,519	1,594,083	288,000	55,750	1,300	55,590	

Includes Alachus, Clay, Gadsden, and Hernando counties.

Land served by two or more projects counted only once.

Acres aerved by two projects are included for each project. See text.

Includes projects taken over by another project prior to 1960. See text.

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State Table 1. – DRAINAGE PROJECTS-NUMBER, AREA, COST, AND WORKS, 1920 TO 1960

See text for comparability of data

Sen	text for comparability of de	at n			
ltem	1960 Census	1950 Census	1940 Cencus	1930 Census	1920 Census
AREA					
Approximate land areaacres	37,295,360	37,429,120	37,451,520	37,584,000	37,586,00
and in farmsacres	19,657,615	25,751,055	23,683,631	22,078,630	نا0ر1ئسرت،
Oriunage projectsnumber	1.2	55	52	11A	N
Fotal area in drainage projects	94,728	96,259	8-,374	84,,255	65,45
Area not used for agriculture or not drained acres served	1,500	11A	NA	ΠA	11
Net area drained and used for agricultureacres served	93,228	NA	103,874	1 _{63,865}	n
Drainage established 10 years or more before Census date	67,982	NA	AII	NA	h
Drainage established within 10 years of Census datearres served	25,246	NA	NA.	11A	11
Area served by two or more projectsscres served	7,621				
PROFESSION OF STREET					
PROJECTS BY TYPE OF ORGANIZATION					
Drains owned by one landowner	11	10	NA.	NA.	
acres served,	12,847	9,569	3,700	9,000	
Cooperative or mutual drainsnumber of projects	17	10	• • • • • • • • • • • • • • • • • • • •		
acres served,	24,325	17,205			10,00
Legally organized public drains	24	35	NA.	NA.	N ss is
acres served	64,682	u9,485	80,674	75,255	55,45
PROJECTS BY YEAR STARTED					
Started 10 years or more before Census date	38	39	NA.	NA.	N.
acres served	67,321	72,771	84,374	74,097	10,00
Started within 10 years of Census datenumber of projects	14	16		NA	N,
acres served	34,533	23,488		10,158	55,45
OPERATIONS, 10-YEAR PERIOD PRECEDING CENSUS DATE					
Cost of drainage works and services	23	22	NA.	NA.	N N
dollare	118,012	132,354	NA.	NA NA	
New drainage works constructed, enlarged, or installed	21	222	NA NA	NA NA	N.
cost, dollars	109,012	² 107,104	NA.	NA.	N
Open ditches projects reporting	21	22	NA.	NA	N.
length, miles	52.4	115	NA	NA.	N.
Tile or covered drains	1	1	NA.	NA	N.
length, miles	7.8	2	AM	NA	11
Levees or dikes	•••	•••	NA	NA NA	N N
length, mules	• • • •	•••			
Pumps projects reporting	•••	AM	NA.	NA	N
number of pumps	•••	NA.	NA.	NA.	n
Other (see text)		NA.	NA.	NA.	11
Cost of maintenance, operation, repair, and administration projects reporting	3	NA.	NA.	NA.	N
dollars	9,000	25,250	AM.	NA.	N
STATUS ON CENSUS DATE					
Capital investmentdollars	NA.	NA.	2,064,840	1,918,525	794,58
Physical works:					
Open ditches	NA.	NA.	550.3	496,9	276.
Tile drains length, miles	P.LA	NA.	2.0	40.0	
Levees and dikes	NA.	NA	5,0		
Pumping unitsnumber of units	NA	***	NA.	4	

NA Not available.

1Not fully comparable. See text.

2Cost of new works for lands not previously drained.

State Table 2.-DRAINAGE

			ed and used lture, 1960	Area by period drainage was established					
Size of project (Based on area of agricultural land in project)	Number of projects		Served by two	Befor	re 1950	Ares added 1950-1959			
		Total (acres)	or more projects (acres)	Projects reporting	Acres	Projects reporting	Acres		
All projects.	52	101,854	16,247	42	76,608	18	25,246		
500 to 999 scres	21	14,172	3,115	18	12,117	5	2,055		
L,000 to 1,999 acres	18	26,533	3,495	14	19,159	8	7,374		
2,000 to 4,999 acres	10	28,613	2,016	7	18,106	4	10,507		
5,000 to 9,999 acres	1	9,846		1	9,846				
10,000 to 19,999 acres	2	22,690	7,621	2	17,380	1	5,310		
20,000 to 49,999 acres									
50,000 to 99,999 acres									
100,000 or more acres									

State Table 3.-DRAINAGE PROJECTS, 1960,

		Area draine for agricul		Are	a by period drains	ge was establish	ed	
Type of organization	Number of projects	Total	Served by two	Befor	e 1950	Area added 1950-1959		
	,	(acres)	projects (acres)	Projects reporting	Acres	Projects reporting	Acres	
All projects.	52	101,854	16,247	42	76,608	18	25,24	
Drains owned by one landowner.	11	12,847	1,980	7	7,877	4	4,97	
Cooperative or mutual drains	17	24,325	6,646	13	14,412	10	9,91	
Legally organized public drains	24	64,682	7,621	22	54,319	4	10,36	

State Table 4.-DRAINAGE PROJECTS, 1960,

		Area draine for agricul		Are	a by period drain	age was establisb	ed
Year of organization	Number of projects		Served by two	Befor	e 1950	Area added	1950-1959
	projects	Total (acres)	or more projects (acres)	Projects reporting	Acres	Projects reporting	Acres
All projects	52	101,854	16,247	42	76,608	18	25,246
1950-1959	14	34,533	11,182	4	10,676	14	23,857
Prior to 1950	38	67,321	5,065	38	65,932	4	1,389

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PROJECTS, 1960, BY SIZE

		0-1959	nstalled, 195	nlarged, or i	onstructed, e	New works			1950-1959	and services,	rainage works	Cost of da
other,	Pumps		nd dikes	Levees and dikes		Tile or cov	itches	Open d	works	For new	tal	Tot
projects reporting	Number	Frojects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting
 					7.8	1	52.4	21	109,012	21	118,012	23
 							10.4	7	18,300	7	25,550	8
 							23.4	8	34,439	8	36,189	9
					7.8	1	16.4	5	42,773	5	42,773	5
 							2.2	1	13,500	1	13,500	1

BY TYPE OF ORGANIZATION

Cost of d	rainage works	and services,	1950-1959			New works	constructed, e	mlarged, or i	nstalled, 195	0-1959		
To	otal	For new	works	Open d	Open ditches		Tile or covered drains		Levees and dikes		Pumps	
Projects reporting	Dollars	Frojects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Frojects reporting	Length (miles)	Projects reporting	Number	projects reporting
23	118,012	21	109,012	21	52.4	1	7.8					
6	25,845	6	20,845	6	14.0							
13	64,967	11	60,967	11	28.2	1	7.8					
4	27,200	4	27,200	4	10.2							

BY YEAR OF ORGANIZATION

Cost of d	krainage works	and services,	1950-1959			New works o	onstructed, en	niarged, or 1	nstarred, 195	7-1454		
To	tal	For new	w works	Open di	Open ditches Tile or covered drains Levees and			nd dikes Pun		ips .	Other,	
Projects reporting	Dollars	Frojects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Frojects reporting	Number	projects reporting
23	118,012	21	109,012	21	52.4	1	7.8					
14	56,858	14	56,858	14	36.6							
9	61,154	7	52,154	7	15.8	1	7.8					

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

	Item and Census year	The State	Banks	Barrow	Bryan	Coweta	Evans	Franklin	Clynn
	AREA								
1	Approximate land areaacres 1960	37,295,360	147,840	109,440	280,960	283,520	119,040	172,160	270,720
2	Land in farmsacres 1959	19,657,615	74,998	66,689	42,753	140,108	80,545	116,670	29,129
3	Drainage projectsnumber 1960	52	2	2	3	1	2	5	4
4	1950	55	5	3	2	1	1	5	1
5	Total area in drainage projects 1	94,728	880	933	3,064	3,389	970	23,479	8,997
8	1950	96,259	3,697	2,028	2,264	3,389	450	23,479	1,686
7	Area not used for agriculture or not drained acres served $1960\ldots$	1,500							
6	Net area drained and used for agriculture acres served 1960	93,228	880	933	3,064	3,389	970	23,479	8,997
9	Drainage established before 1950 acres served 1960	67,982	880	933	2,764	3,389	450	23,479	
0	Area added, 1950-1959 acres served 1960	25,246			300		520		8,997
1	Area served by two or more projects acres served 1980	7,621	•••				•••		•••
	PROJECTS, 1960, BY TYPE OF ORGANIZATION								
12	Drains owned by one landowner number of projects	11			1		2		
13	acres served ²	12,847			500		970		
14	Cooperative or mutual drains number of projects	17		1					2
15	acres served ² .,	24,325		305					4,244
6	Legally organized public drainsnumber of projects	24	2	•1	2	1	• • • •	5	2
7	acres served ²	64,682	880	628	2,564	3,389		23,479	4,753
	PROJECTS, 1960, BY YEAR STARTED								
18	1950-1959 number of projects	14					1		4
19	acres served ²	34,533					520		8,997
20	Prior to 1950number of projects	38	2	2	3	1	1	5	
21	acres served 2.	67,321	880	933	3,064	3,389	450	23,479	
	DRAINAGE OPERATIONS, 1950-1959								
22	Cost of drainage works and servicesprojects reporting	23		(4)	2		(4)		4
23	dollars	118,012		(4)	22,500		(4)		11,713
24	New drainage works constructed, enlarged, or installedprojects reporting	21			2		(4)		4
25	dollars	109,012			17,500		(4)		11,713
26	Open ditches projects reporting	21			2		(4)		4
27	tength, miles	52.4			3.2		(4)		9.0
28	Tile or covered drainsprojects reporting	1							
29	length, miles	.7.8							
30	Levees or dikes								
1	length, miles								
32	Pumpsprojects reporting								
3	number of pumps								
34	Other (see text)projects reporting								
5	Cost of maintenance, operation, repair, and administrationprojects reporting	3		(4)	1				
6	dollars	9,000		(4)	5,000				•••
	· ·			` '}	-,000				•••

Land served by two or more projects counted only once.

Acres served by two projects are included for each project. See text.

Jincludes projects taken over by another project prior to 1900. See text.

Included in State total only.

GEORGIA

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

Item and Census year		Greene	Gwinnett	Hall	Harris	Hart	Jackson	Liberty	Madison
AREA									
1 Approximate land area	acres 1960	257,920	279,040	250,880	297,600	164,480	215,680	326,400	179,840
2 Land in farms		129,951	118,695	113,056	116,359	103,563	133,709	88,424	110,742
3 Drainage projects	number 1960	3	2	1	1	2	1	2	1
4	1950	3	.3	1		2	2		1
5 Total area in drainage projects 1	acres served 1960	2,898	2,541	700	2,000	3,509	400	3,300	639
6	1950	2,898	2,668	700		3,509	950		639
7 Area not used for agriculture or not drained	acres served 1960								
9 Not area drained and used for agriculture	acres served 1960	2,898	2,541	700	2,000	3,509	400	3,300	639
9 Drainage established before 1950	acres served 1960	2,898	2,541	700	2,000	3,509	400		639
10 Ares added, 1950-1959	., acres served 1960.,.							3,300	
Area served by two or more projects	acres served 1960								
PROJECTS, 1980, BY TYPE OF ORGA	NIZATION								
12 Drains owned by one landowner	number of projects				1			2	
13	acres served ²				2,000			3,300	
14 Cooperative or mutual drains	number of projects						1		
15	acres served ² ,,						400		
16 Legally organized public drains	number of projects	3	2	1		2			1
17	acres served2	2,898	2,541	700		3,509			639
PROJECTS, 1960, BY YEAR STA	ARTED								
18 1950-1959	number of projects							2	
19	acres served2							3,300	
20 Prior to 1950	number of projects	3	2	1	1	2	1		1
21	acres served2,,	2,898	2,541	700	2,000	3,509	400		639
DRAINAGE OPERATIONS, 1950	-1959 ⁸								
22 Cost of dramage works and services	projects reporting						(4)	(4)	
23	dollars						(4)	(4)	
94 New drainage works constructed, enlarged, or installed	projects reporting						,	(4)	
25	dollars							(4)	
26 Open ditches	projects reporting							(4)	
27	length, miles							(4)	
28 Tile or onvered draine	projects reporting								
29	length, miles								
30 Levees or dikes	projects reporting								
31	length, miles								
32 Pumpe	projecte reporting								
38	number of pumps								
34 Other (see text)	projects reporting								
35 Cost of maintenance, operation, repair, and administration.	projects reporting						(4)		
36	dollars						(4)	***	

Land served by two or more projects counted only once.

Acres served by two projects are included for each project. See text.

Jincludes projects taken over by another project prior to 1960. See text.

Included in State total only.

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959 [See text for comparability of 1960 and 1950 data]

			1	ty of 1960 and 1950 (
	Item and Census year	Miller	Morgan	Newton	Oglethorpe	Putnam	Rabun	Screven	Seminole
	AREA								
1 A	pproximate land areaacres 1960	183,680	228,480	174,720	276,480	218,240	236,160	416,640	162.56
2 L	and in farmsacres 1959	149,057	155,243	97,564	124,392	96,227	31,604	304,009	126,94
3 D	rainage projectsnumber 1960	4	1	1	1	1	1	2	14
4	1950	1	1	3	2	1	1	2	-
5 T	otal area in drainage projects 1	1,685	2,200	752	45	200	2,500	2,316	18,205
6	1950	145	2,200	2,046	692	200	2,500	1,756	14,635
7	Area not used for agriculture or not drained acres served 1960			500					1,000
8	Net area drained and used for agriculture acres served 1960	1,685	2,200	252	45	200	2,500	2,316	17,205
9	Dramage esteblished before 1950 acres served 1960	145	2,200	252	45	200	2,500	1,756	9,170
10	Area edded, 1950-1959 acres served 1960	1,540						560	8,035
11	Area served by two or more projects acres served 1960								7,621
	PROJECTS, 1960, BY TYPE OF ORGANIZATION								.,
12 Dr	rains owned by one landowner number of projects	1							
13	acres served ²	145						•••	2.120
14 C	poperative or mutual drainsnumber of projects	3					1	2	3 ,13 0
15	acres served ²	1,540					2,500	2,316	10,276
16 L	egally organized public drainsnumber of projects		1	1	1	1	.,,,,,,,	.,,510	10,270
17	acres served ²		2,200	252	45	200 -			12,425
	DECEMBER 11-10 DV IN IN INCIDENT								11,425
	PROJECTS, 1960, BY YEAR STARTED								
19	50-1959number of projects	1,540	***	***	***				6
	acres served nor to 1950	1,540		***	***			•••	18,711
21	acres served ²	145	1	1	1	1	1	2	8
21	acres served	140	2,200	252	45	200	2,500	2,316	7,120
	DRAINAGE OPERATIONS, 1950-1959 ³								
	ost of drainage works and servicesprojects reporting	3					(4)	2	7
23	dollars	5,620					(4)	3,500	28,625
24 Ne	ew drainage works constructed, enlarged, ir installedprojects reporting	3					(4)	2	6
25	dollars	5,620					(4)	3,500	26,875
26	Open ditchesprojects reporting	3					(4)	2	6
27	length, miles	3.0					(4)	7.0	11.9
28	Tile or covered drainsprojects reporting						(4)		
29	length, mules						(4)		
30	Levees or dikesprojects reporting								
31	length, mules								
32	Pumpeprojects reporting								
33	number of pumps								
34	Other (see text)projects reporting								
35 Cc	ost of maintenance, operation, repair, and dministration								
36	dollars								1 200
			7						1,750

Land served by two or more projects counted only once.

*Acres served by two projects are included for each project. See text.

*Includes projects taken over by another project prior to 1960. See text.

*Included in State total only.

County Table 1. – DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

AREA Approximate land area .	T						T	
Agentinate land area.	Item and Census year	Spaiding	Stephens	Tattnill	Walton	Ware	Wayne	untleu ¹
Lead in farms	AREA							
Continue property 1 1 1 1 1 1 1 1 1	Approximate land areaacres 1960	128,640	115,200	315,920	211,.00	:83,680	412,440	1,965,44
Stoke Stok	Land in farmsacres 1959	72,907	42,323	201,055	139,695	134,969	119,955	1,060,91
Total used in distings projects	Drainage projectsnumber 1960	1	2	1	1		1	
150	1950	1	5	1	3	1		
1960	Total area in drainage projects ²	650	2,280	. , 252		2,744	55.0	
Note were defined and used for agriculture	1950	650	2,280		3,111	750		14,1
Drainage entablished before 1800	Area not used for agriculture or not drained acres served 1960							
Drainage entablished before 1800	Net area drained and used for agriculture acres served 1960	60	2,280	2,252	650	2,744	5511	
Area andred, 1800-1899	Drainage established before 1950 acres served 1960	650	2,380		650	750	550	
Area served by two or more projects						1,994		
### PRIMERYS, 1960, BY TYPE OF ORGANIZATION Disease served by one landstream								
2 Drains owned by one landsowner								
Acres served 3	PROJECTS, 1980, BY TYPE OF ORGANIZATION							
4 Cooperative or mutual drama	Drains owned by one landowner number of projects		* * *	1				
Section Sect	acres served ³	***	***	_,252			550	
Example of public drains	Cooperative or mutual drains							
### Acres served 3	acres served ³ .					2,744		
PROJECTS, 1960, BY YEAR STARTED 8 1950-1959	Legally organized public drainsnumber of projects	1	2	***	1			
1	acres served 3	050	.,280	***	6,511			
Acres served Acre	PROJECTS, 1980, BY YEAR STARTED							
Proor to 1950	1950-1959 number of projects					1		
Acres served Acre	acres served 3					1,465		
DRAINAGE OPERATIONS, 1990-1959 ⁶ 2 Cost of drainage works and services	Prior to 1950number of projects	1	2	1	1	1	1	
2 Cost of dramage works and services	acres served ³	650	2,280	2,252	650	1,279	550	
	DRAINAGE OPERATIONS, 1950-1959 ⁴							
New drainage works constructed, enlarged, or installed	Cost of drainage works and servicesprojects reporting					2	(5)	
Or installed Or i	dollars					13,294	(5)	
dollars 13,294 (5)	New drainage works constructed, enlarged,					2	(5)	
6 Open disches. projects reporting. 2 (5) 7 Iength, miles						13.294		
8 The or covered drains								
length, miles Levees of dikes								
10 Levees or dikes								
length, miles								
92 Pumps								
number of pumps								**
54 Other (see text)								
S Cost of maintenance, operation, repair, and	·							
		• • • • • • • • • • • • • • • • • • • •						
6 dollars	dollars							

Includes Bartow, Cherokee, Clarke, Clayton, Cobb, Fayette, Henry, Coonee, Paulding, and Thomas counties.

Land served by two or more projects counted only once.

Acres served by two projects are included for each project. See text.

Includes projects taken over by another project prior to 1960. See text.

Pincludes in Clark total only.



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State Table 1.-DRAINAGE PROJECTS-NUMBER, AREA, COST, AND WORKS, 1920 TO 1960

[See text for comparability of data]												
luen .	1960 Census	1950 Census	1940 Census	1930 Census	1920 Census							
AREA												
Approximate land areascros	52,933,120	52,972,160	52,997,120	53,346,560	53,346,56							
Land in farmsacres	15,232,401	13,224,192	10,297,745	9,346,908	8,375,87							
Drainage projectsnumber	33	379	50	NA.	N							
Total area in drainage projectsscres served	130,982	436,171	659,136	375,464	64,64							
Area not used for agriculture or not drainedscres served	20,000	NA.	NA.	NA.	1							
Net area drained and used for agriculture	110,982	NA.	¹ 650,135	1362,303)							
Drainage established 10 years or more before Census date	110,118	NA.	NA.	NA.	,							
Drainage established within 10 years of Census dateacres served	864	NA NA	NA NA	NA.	1							
Area served by two or more projects			15,396									
PROJECTS BY TYPE OF ORGANIZATION												
Orans owned by one landowner	5 :	2,4	NA .	NA .	N							
acres served	4,074	² 3,210	22,492	²1,850	² 56							
Cooperative or mutual drains	3	23		***								
acres served,	4,362	² 5,195		***								
Legally organized public drains	25	2 ₃₇	NA.	NA.	N							
acres served	102,546	² 135,172	²123,753	2118,645	² 16,08							
PROJECTS BY YEAR STARTED												
Started 10 years or more before Census datenumber of projects	32	232	NA.	NA.								
acres served	110,278	²129,331	630,471	305,029								
Started within 10 years of Census datenumber of projects	1	212	NA.	NA NA	N							
acres served	704	² 14,246	28,665	70,435	64,64							
sold street.	7.04	14,240	20,000	70,433	0.,0.							
OPERATIONS, 10-YEAR PERIOD PRECEDING CENSUS DATE												
Cost of drainage works and services	29	244	NA.	NA NA	N							
dollarq	2,011,573	906,297	NA.	NA NA	N							
New drainage works constructed, enlarged, or installed	16	312	NA	NA.	N							
cost, dollars	200,332	3132,962	NA.	NA NA	N							
Open ditches projects reporting	11	19	NA	NA NA	N							
length, miles	38.6	59	NA.	NA.	N							
Tile or covered drainsprojects reporting	1	2	NA.	NA NA	N							
length, nules	2.5	2	N.A	NA NA	N							
Levees or dikes	5	4	NA	NA.	4							
length, miles	8.6	8	NA.	NA.	N							
Pumps projects reporting	11	NA.	NA	NA NA	N							
number of pumps	18	NA.	NA.	NA.	N							
Other (see text) projects reporting	1	NA.	NA	NA NA	N							
Cost of maintenance, operation, repair, and administration	29	NA	NA.	NA.	N							
dollars	1,811,241	773,335	NA	NA.	N							
		,										
STATUS ON CENSUS DATE												
Capital investmentdollars	NA.	NA.	7,567,032	5,112,444	1,668,56							
Physical works: Open ditches. length, miles	NA.	NA NA	968.1	651.2	274.							
Tile drains length, miles	NA NA	NA NA	174.6	19.9	1.							
Levees and dikes. length, miles	NA.	NA .	95.4	74.8	9.							
	NA NA	254	73	37								
Pumping unitsnumber of units	NA.	*34		31	·							

NA Not available.
Not fully comparable. See text.
'Not fully comparable. See text.
'1950 figures exclude 335 projects and 292,594 acres in "irrigation enterprises"; 1940 figures exclude 532,891 acres in "irrigation enterprises"; 1930 figures exclude 254,969 acres in "irrigation enterprises"; 1930 figures exclude 264,969 acres in "irrigation enterprises"; 1930 figures exclude 254,969 acres in "irrigation enterprises"; 1930 figures exclude 254,969 acres in "irrigation enterprises."

State Table 2.-DRAINAGE

			ed and used lture, 1960	Area by period drainage was established				
Size of project (Based on ares of agricultural land in project)			Served by two	Before 1950		Area added 1950-1959		
		Total (scres)	or more projects (acres)	Projects reporting	Acres	Projects reporting	Acres	
All projects.	33	110,982		32	110,118	2	86	
500 to 999 scres	11	8,075		10	7,371	1	70	
1,000 to 1,999 acres	9	12,214		9	12,054	1	16	
2,000 to 4,999 acres	9	30,656		9	30,656			
5,000 to 9,999 acres	2	11,988		2	11,988			
10,000 to 19,999 acres								
20,000 to 49,999 acres	2	48,049		2	48,049			
50,000 to 99,999 acres								
100,000 or more acres								

State Table 3.-DRAINAGE PROJECTS, 1960,

		Area draine for agricul		Area by period drainage was established				
Type of organization	Number of projects	Total	Served by two	Before	1950	Area added	1950-1959	
		(acres)	projects (acres)	Projects reporting	Acres	Projects reporting	Acres	
All projects	33	110,982		32	110,118	2	864	
Drains owned by one landowner	5	4,074		4	3,210	2	86	
Cooperative or mutual drains	3	4,362		3	4,362			
Legally organized public drains	25	102,546		25	102,546			

State Table 4.-DRAINAGE PROJECTS, 1960,

		Ares draine for agricul		Area by period drainage was established				
Year of organization	Number of projects		Served by two	Before 1950		Ares added 1950-1959		
	projecta	Total (acres)	or more projects (acres)	Projects reporting	Acres	Projects reporting	Acres	
1 All projects.	33	110,982		32	110,118	2	864	
2 1950-1959	1	704				1	704	
8 Prior to 1950	32	110,278		32	110,118	1	160	

PROJECTS, 1960, BY SIZE

		New works constructed, enlarged, or installed, 1950-1959								1950-1959	and servicer,	rainage works	Cost of d										
	Other,	apr	Open ditches Tile or covered drains Levees and dikes Fumps						Open ditches Tile or covered drains Levees and dikes Fumps				Fumpr		wred drains Levees and dikes		Upen ditches Tile or covered			works	For new	tal	To
:	project: reportin	Number	Projects reporting	Length (miles)	Frojects r-porting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting										
1		18	11	8.6	5	2.5	1	38.6	11	200,332	16	2,011,573	29										
		6	4	5.5	3			13.7	3	64,795	5	228,435	9										
		7	5	3.1	2			13.6	5	57,078	7	530,608	8										
1		5	2		***			4.3	2	54,709	3	825,923	8										
	,											185,621	2										
						2.5	1	7.0	1	23,750	1	240,986	2										

BY TYPE OF ORGANIZATION

Cost of d	rainage works	and services,	1950-1959	New works constructed, enlarged, or installed, 1950-1959								
To	tal	For new	vorks	Open d	itches	Tile or cove	red drains	Levees a	nd dikes	Fump	5	Other,
rojects reporting	Dollars	Froject reporting	Pollars	Frojects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number	project: reporting
29	2,011,573	16	200,332	11	38.6	1	2.5	5	8.6	11	18	1
5	127,117	4	49,000	4 .	16.3			3	3.1	2	3	
24	1,884,456	12	151,332	7	22.3	1	2.5	2	5.5	9	15	1

BY YEAR OF ORGANIZATION

Cost of	lrainage works	and services,	1950-1959			New works	constructed, e	nlarged, or i	nstalled, 195	0-1959		
To	otal	For new	w works	Open di	itches	Tile or cove	ered drains	Levees a	nd dikes	Pu	mps	ther,
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Frojects reporting	Length (miles)	Frojects reporting	Number	projects reporting
29	2,011,573	16	200,332	11	38.6	1	2.5	5	8.6	11	18	1
1	34,300	1	28,000	1	8.7			1	0.5	1	2	
28	1,977,273	15	172,332	10	29.9	1	2.5	4	8.1	10	16	1

County Table 1. - DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

-			<u> </u>		T		
	Item and Census year	The State	Ada	Benewah	Bonner	Boundary	Canyon
	AREA						
1	Approximate land areaacree 1960	52,933,120	666,880	506,240	1,107,840	816,000	371,200
2	Land in farmsacres 1959	15,232,401	314,976	202,523	240,592	115,206	352,382
3	Drainage projectsnumber 1960	33	2	4	1	16	2
4	1950	379	45	4	2	16	58
6	Total area in drainage projects 1	130,982	21,661	3,223	1,474	33,010	13,380
6	1950	436,171	74,821	3,223	1,574	32,920	149,956
7	Area not used for agriculture or not drained acres served 1960	20,000					
8	Net area drained and used for agriculture acres served 1960	110,982	21,661	3,223	1,474	33,010	13,380
9	Drainage established before 1950 acres served 1960	110,118	21,661	3,223	1,474	32,850	13,380
10	Area added, 1950-1959 acres served 1960	864				160	
11	Area served by two or more projects acres served 1960	***					
	PROJECTS, 1960, BY TYPE OF ORGANIZATION						
12	Drains owned by one landowner number of projects	5		2		1	
13	acres served ²	4,074		1,810		1,060	
14	Cooperative or mutual drains	3					
15	acres served ²	4,362					
16	Legally organized public drains number of projects	25	2	2	1	15	2
17	acres served 2	102,546	21,661	1,413	1,474	31,950	13,380
	PROJECTS, 1960, BY YEAR STARTED						
18	1950-1959 number of projects	1					
19	acres served ²	704					
20	Prior to 1950number of projects	32	2	4	1	16	2
21	actes served 2	110,278	21,661	3,223	1,474	33,010	13,380
	DRAINAGE OPERATIONS, 1950-1959 ³						
22	Cost of drainage works and servicesprojects reporting	29	2	4	1	16	2
23	dollars	2,011,573	155,517	35,807	1,800	1,550,122	86,219
24	New drainage works constructed, enlarged, or installed	16		3		9	
25	dollars	200,332		35,000		104,873	
26	Open ditchesprojects reporting	11		2		5	
27	length, miles	38.6		8.0		12.6	
28	Tile or covered drainsprojects reporting	1					
29	length, miles	2.5					
30	Levees or dikesprojects reporting	5	***	1		2	
31	length, miles	8.6		3.0		3.1	
32	Pumpeprojects reporting	11		. 2		8	
33	number of pumps	18		3		13	
34	Other (see text)	1				1	
35	Cost of maintenance, operation, repair, and administration	29	2	4	1	16	2
36	dollars	1,811,241	155,517	50,807	1,800	1,445,249	86,219

Land served by two or more projects counted only once.

Acres served by two projects are included for each project. See text.

Includes projects taken over by another project prior to 1960. See text.

County Table 1. - DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

==								
	Item and Census year	Franklin	Gem	Kootenai	Madison	Owyhee	Payette	All other counties1
	AREA							
1	Approximate land area	426,880	² 355,200	803,840	2302,720	4,888,960	257,920	24,728,960
2	Land in farms	275,447	² 363,029	268,643	² 357,361	690,055	194,450	8,555,728
3	Drainage projectsnumber 1960	3	1	2	1	1	1	
4	1950	33	29	1	3	10	47	148
5	Total area in drainage projects 3	2,782	6,800	1,204	3,000	40,000	4,448	
ð	1950	11,906	25,714	500	3,150	19,514	43,883	69,010
7	Area not used for agriculture or not drained acres served 1960					20,000		
6	Net area drained and used for agriculture acres served 1960	2,782	6,800	1,204	3,000	20,000	4,448	
9	Drainage established before 1950 acres served 1960	2,782	6,800	500	3,000	20,000	4,448	
10	Area added, 1950-1959 acres served 1960			704				
11	Area served by two or more projects scres served 1960						***	
	PROJECTS, 1960, BY TYPE OF ORGANIZATION							
12	Drains owned by one landowner number of projects			2	***			
13	acres served ⁴			1,204				
14	Cooperative or mutual drainsnumber of projects	2			1			
15	acres served ⁴	1,362			3,000			
16	Legally organized public drainsnumber of projects	1	1			1	1	
17	acres served ⁴ ,.	1,420	6,800			20,000	4,448	
	PROJECTS, 1960, BY YEAR STARTED							
16	1950-1959number of projects			1				
19	acres served 4			704				
20	Prior to 1950	3	1	1	1	1	1	
21	acres served ⁴	2,782	6,800	500	3,000	20,000	4,448	
	DRAINAGE OPERATIONS, 1950-1959 5							
22	Cost of drainage works and servicesprojects reporting		1	(6)		1	1	
23	doltars		18,200	(6)		32,750	34,858	
24	New drainage works constructed, enlarged,							
25	or installedprojects reporting	***	***	(6)		1	1	• • •
26	Open ditchesprojects reporting			(6)		23,750	2,709	
27	length, miles	***		(6)	***	7.0	0.3	***
28	Tile or covered drainsprojects reporting							
29	length, miles		***			1		
30	Levees or dikes			(6)	***	2.5		
31	length, miles			(6) (6)				• • • •
32	Pumpsprojects reporting		***	(6)				* * *
33	number of pumps						***	***
34	Other (see text)projects reporting			(6)	***			
35	Cost of maintenance, operation, repair, and		•••	***				***
~	administration		1	(6)		1	1	
36	enflob		18,200	(6)		9,000	32,149	

Includes Adams, Bannock, Bear Lake, Bingham, Blaine, Boise, Bonneville, Camas, Caribou, Cassia, Elmore, Fremont, Gooding, Jefferson, Jerome, Lemhi, Minidoka, Oneida, Teton, Twin Falls, Valley, and Washington counties.

"The excess of farm acreage over approximate land area is due to the fact that the entire acreage of a farm is tabulated as in the county in which the headquarters is located, even though a part of the farm may be situated in an adjoining county.

"Jand exerved by two or more projects counted only once."

"Acres served by two projects are included for each project. See text."

"Includes projects taken over by another project prior to 1960. See text."



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State Table 1.-DRAINAGE PROJECTS-NUMBER, AREA, COST, AND WORKS, 1920 TO 1960

See text for comparability of data;

j. Activity	text for comparability of da				
ltem	1960 Censur	1960 Census	1940 Cencus	,93r Census	19,60 Census
AREA					
Approximate land area. acres.	35,795,200	15,798,400	15,806,080	15,867,5.10	15,867,5.0
Land in farms	30,327,261	30,978,495	0,03.,572	10,695,139	31,974,77
Drannage projects	1,496	1,473	1,695	NA	tu tu
Total area in drainage projects	5,616,121	5,370,825	5,091,364	5,03.,682	1,909,049
Area not used for agriculture or not drained	52,695	AII	ASI	NA.	i ii
Not area drained and used for agriculture	5,563,426	1CA	14,911,263	15,005,376	14.
Drainage established 10 years or more before Census date	5,428,733	HA	NA.	na.	N
Drainage established within 10 years of Census date acres served	134,693	NA.	NA	NA.	15
Area served by two or more projects	293,808	299,963	805,760	709,134	181,55
Promote by Marin on one will arrive					
PROJECTS BY TYPE OF ORGANIZATION					
Drains owned by one landowner	39	16	AJ1	NA.	NJ.
acres served	78,673	27,449	30,822	15,722	17,54
Cooperative or mutual drains	154	189	***		•
acres served	228,762	302,121	***		
Legally organized public drains	1,303	1,128	A)1	AUs	N.
acres sen ed	5,575,635	5,041,255	5,060,542	5,016,960	3,891,50
PROJECTS BY YEAR STARTED					
Started 10 years or more before Census date	1,395	1,335	NA.	NA.	N.
acres : erved,	5,655,113	5,131,906	4,890,012	4,447,288	²¿,988,03
Started within 10 years of Census datenumber of projects	101	98	NA	NA.	N.
acres served	227,957	338,919	201,352	585,394	2909,99
OPERATIONS, 10-YEAR PERIOD PRECEDING CENSUS DATE					
(inst of drainage works and services	1,027 28,691,965	892 16,860,472	NA	NA NA	N.
	28,691,965	3103	NA NA	NA IIA	N.
New dramage works constructed, enlarged, or installed	11,114,587	31,217,157	NA NA	NA.	16
cost, dollars					
Open ditches. projects reporting.	143	96	NA.	NA	N.
length, mules	374.5	273	NA.	NA	Nu
Tile or covered drawns	83	34	NA.	1LA	N.
length, miles	124.9	67	NA NA	1GA	N.
Levees or dikes		19			No.
length, miles	115.2		NA.	NA.	N.
Pumps	30	NA NA	NA NA	NA NA	n.
Other (see text)	45 50	NA.	NA NA	NA NA	N.
Cost of maintenance, operation, repair, and administration projects reporting.	936	NA.	NA.	NA.	N.
dollars	17,577,378	15,643,315	NA NA	NA NA	N.
WASHING TO	11,571,510	13,043,515	11/4	, vo	
STATUS ON CENSUS DATE					
Capital investmentdollars	NA	NA.	72,567,174	74,565,923	43,595,069
Physical works: Open ditches. length, miles.	NA.	NA.	6,862.2	5,996.4	4,754.
Tile drains length, miles	NA NA	NA.	4,246.6	3,825.6	3,507.
Levees and dikes	NA NA	NA I	1,157.8	1,108.4	650.
Pumping units	NA.	115	125	120	N/

NA Not available.
Whot fully comparable. See text.
#3020 figures exclude 11,023 acres for which date of organization was not reported.
#3020 figures exclude 11,023 acres for which date of organization was not reported.

State Table 2.-DRAINAGE

			ed and used 1ture, 1960	Area by period drainage was established				
Size of project (Based on ares of agricultural land in project)	Number of projects	Number of projects Total (acres) p		Befor	re 1950	Area added 1950-1959		
(parce on ages of agrana are as properly				Projects reporting	Acres	Projects reporting	Acres	
All projects	1,496	5,883,070	613,452	1,446	5,748,217	74	134,85	
500 to 999 acres	313	228,468	25,748	292	212,393	29	16,07	
1,000 to 1,999 scres	438	633,572	38,076	417	601,899	27	31,67	
2,000 to 4,999 acres	435	1,380,782	96,127	429	1,351,060	13	29,72	
5,000 to 9,999 acres	182	1,240,267	124,647	180	1,224,247	3	16,02	
10,000 to 19,999 acres	98	1,317,391	109,355	98	1,317,391			
20,000 to 49,999 acres	27	822,295	106,487	27	818,019	1	4,27	
50,000 to 99,999 acres	2	151,034	46,940	2	113,947	1	37,08	
100,000 or more acres	1	109,261	66,072	1	109,261			

State Table 3.-DRAINAGE PROJECTS, 1960,

		Area draine for agricul		Area by period drainage was established				
Type of organization	Number of projects	Total	Served by two	Before	1950	Area added	1950-1959	
		(acres)	or more projects (acres)	Projects reporting	Acres	Projects reporting	Acres	
All projects.	1,496	5,883,070	613,452	1,446	5,748,217	74	134,85	
Drains owned by one landowner	39	78,673	16,261	30	68,975	12	9,69	
Cooperative or mutual drains	154	228,762	30,845	129	188,964	34	39,79	
Legally organized public drains	1,303	5,575,635	566,346	1,287	5,490,278	28	85,3	

State Table 4.-DRAINAGE PROJECTS, 1960,

Number of projects	Total	Served by two or more	Befor	≥ 1950	Area added	1950-1959
projects						
projects	Total (acres)	projects (scres)	Projects reporting	Acres	Projects reporting	Acres
1,496	5,883,070	613,452	1,446	5,748,217	74	134,85
101	227,957	96,634	51	102,593	67	125,36
1,395	5,655,113	516,818	1,395	5,645,624	7	9,48
	101	101 227,957	1,496 5,883,070 613,452 101 227,957 96,634	1,496 5,883,070 613,452 1,446 101 227,957 96,634 51	1,496 5,883,070 613,452 1,446 5,748,217 101 227,957 96,634 51 102,593	(acres) reporting reporting 1,496 5,883,070 613,452 1,446 5,748,217 74 101 227,997 96,634 51 102,593 67

PROJECTS, 1960, BY SIZE

Oth	Pumpa		Levees and dikes		Tile or covered drains		itches	Open d	works	For new	tal	To
proj repo	Number	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Dollars	Projects reporting	Dollara	Projects reporting
	45	30	115.2	24	124.9	83	374.5	143	11,114,587	228	28,691,965	1,027
	4	4	8.7	3	18.7	17	110.0	52	431,465	65	694,824	173
	6	5	3.0	3	60.8	31	65.6	34	599,351	58	1,647,913	262
	20	12	58.3	14	33.5	22	101.0	31	4,652,527	57	8,195,487	319
	5	5	10.0	1	4.9	5	27.3	13	1,731,117	22	5,711,441	151
	10	4	33.0	2	5.6	4	37.6	11	2,513,314	19	8,343,081	92
			2.2	1	1.4	4	7.0	1	203,773	6	2,557,031	27
							26.0	1	983,040	1	1,309,567	2
1											232,621	1

BY TYPE OF ORGANIZATION

Cost of d	rainage works	and services,	1950-1959			New works	constructed, e	nlarged, or	installed, 19:	0-1959			
To	tal	For new	works	Open d	itches	Tile or cove	red drains	Levees 6	and dikes	Fump	s	Other,	
rojects eporting	Dollars	Projects reporting	Dollars	Frojects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number	projects reporting	
1,027	28,691,965	228	11,114,857	143	374.5	83	124.9	24	115.2	30	45	50	
33	379,868	27	195,738	21	72.4	8	20.3	5	3.6	3	6	4	
83	457,558	59	386,907	44	84.6	14	16.9	3	15.2	7	7	8	
911	27,854,539	142	10,531,942	78	217.5	61	87.7	16	96.4	20	32	38	

BY YEAR OF ORGANIZATION

			0-1959	nstalled, 195	nlarged, or i	constructed, e	New works			1950-1959	and services,	irainage works	Cost of	
Other,		ра	Pum	nd dikes	Levees a	ered drains	Tile or cov	itches	Open d:	w works	For ne	otal	T	
jects		Number	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	
5		45	30	115.2	24	124.9	83	374.5	143	11,114,587	228	28,691,965	1,027	
1		14	12	18.9	9	66.9	25	213.6	81	2,215,879	98	2,338,093	101	
3		31	18	96.3	15	58.0	58	160.9	62	8,898,708	130	26,353,872	926	

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

	Item and Census year	The State	Adams	Alexander	Boone	Brown	Bureau	Calhoun	Carroll	Cass
	AREA									
1	Approximate land areaacres 1960	35,795,200	554,240	143,360	181,120	196,480	555,520	165,760	299,520	236,800
2	Land in farmsacres 1959	30,327,261	476,178	83,046	172,534	168,139	525,217	130,704	258,471	216,067
3	Drainage projectsnumber 1960	1,496	5	9	4	2	20	5	3	17
4	1950	1,433	5	6	4	1	16	2.	3	16
5	Total area in drainage projects 1	5,616,121	40,717	29,129	12,830	5,931	65,365	7,818	4,630	47,732
6	1950	5,370,825	42,887	29,084	13,150	4,320	59,893	7,824	4,630	46,333
7	Area not used for agriculture or not drained acres served 1960	52,695								
8	Net area drained and used for agriculture acres served 1960	5,563,426	40,717	29,129	12,830	5,931	65,365	7,818	4,630	47,732
9	Dramage established before 1950 acres served 1960	5,428,733	40,717	27,849	12,830	5,931	65,365	7,818	4,630	46,576
10	Area added, 1950-1959 acres served 1960	134,693		1,280						1,156
11	Area served by two or more projects acres served 1960	293,808	2,170	2,380			1,040	5,208	500	3,460
	PROJECTS, 1960, BY TYPE OF ORGANIZATION									
12	Drains owned by one landowner	39		1						
13	acres served	78,673		1,880						
	Cooperative or mutual drains	154		2	3		2	3		
15	acres served ²	228,762		1,780	11,370		3,037	2,600		
	Legally organized public drains number of projects	1,303	5	6	1	2	18	2	3	17
17	acres sened ²	5,575,635	42,887	27,849	1,460	5,931	63,368	10,426	5,130	51,192
	PROJECTS, 1960, BY YEAR STARTED									
18	1950-1959	101		3				3		1
19	acres served ²	227,957		3,660				2,600		1,156
20		1,395	5	6	4	2	20	2	3	16
21	acres served ²	5,655,113	42,887	27,849	12,830	5,931	66,405	10,426	5,130	50,036
	DRAINAGE OPERATIONS, 1950-1959 ³									
00	Cost of drainage works and services	1,027	5	9		1	16	5	3	16
23	dollars	28,691,965	1,126,152	2,315,326		65,777	349,168	63,607	80,104	479,042
24	New drainage works constructed, enlarged.	20,002,000	1,120,152	2,323,320		05,111	547,100	00,007	00,104	477,042
24	or installed	228	2	6			4	3	1	6
25	dollars	11,114,587	334,897	2,195,157			113,500	20,400	5,000	91,242
26	Open ditchesprojects reporting	143	1	3			2	3	•••	5
27	length, miles	374.5	5.5	0.8			0.7	6.8		10.5
28	Tile or covered drainsprojects reporting	83	1							1
29	length, miles	124.9	1.1							0.3
30	Levees or dikes	24		3			2			
31	length, miles	115.2		17.0			23.5			
32	Pumpsprojects reporting	30	1					2	1	1
32	number of pumps	45	3					2	1	1
34	Other (see text)	50	1				•••			2
35	Cost of maintenance, operation, repair, and administration	936	5	6		1	16	3	3	15
36	dollars	17,577,378	791,255	120,169		65,777	235,668	48,207	75,104	387,800
									1	

¹land served by two or more projects counted only once.

²Acres served by two projects are included for each project. See text.

³Includes projects taken over by another project prior to 1960. See text.

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County Table 1. - DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

=					_					
	Item and Census year	Champaign	Christian	Clark	Clay	Clinton	Coles	Cook	Crawford	Cumberland
	AREA									
1	Approximate land area	640,000	453,760	323,200	296,960	318,720	324,480	610,560	282,880	221,440
2	Land in farmsacres 1959	600,519	415,508	289,755	244,150	262,731	291,014	130,937	229,101	191,587
3	Drainage projectsnumber 1960	97	81	t	1	44	60	19	6	9
4	1950	96	75	6	1	4	59	20	6	7
5	Total area in drainage projects 1	502,042	138,137	6,528	6,330	8,855	106,636	43,863	19,362	9,739
5	1950	501,844	130,934	20,680	6,330	8,855	101,968	50,283	19,962	7,845
7	Area not used for agriculture or not drained acres served 1960	8,150						3,570	640	
8	Net area drained and used for agriculture acres served 1960	493,892	138,137	6,528	6,330	8,855	106,636	40,293	18,722	9,739
9	Drainage established before 1950 acres served 1960	492,791	138,137	5,848	6,330	8,855	103,767	40,293	18,722	8,239
10	Area added, 1950-1959 acres served 1960	1,10		680			2,869			1,500
11	Area served by two or more projects acres served 1960	1,940					4,092			
	PROJECTS, 1960, BY TYPE OF ORGANIZATION									
12	Drains owned by one landowner number of projects .	1	1	2			1	1		
13	acres served ²	1,100	1,770	1,844			1,326	127		
14	Cooperative or mutual drainsnumber of projects	7		1			1			1
15	acres served ²	11,113		1,190			1,294			1,500
16	Legally organized public drainsnumber of projects	89	80	3	1	4	58	18	6	8
17	acres served ²	483,619	136,367	3,494	6,330	8,855	108,108	40,166	18,722	8,239
	PROJECTS, 1960, BY YEAR STARTED									
18	1950-1959 number of projects	2	1	1			1			1
19	acres served ²	2,090	700	680			2,869			1,500
20	Prior to 1950number of projects	95	80	5	1	4	59	19	6	8
21	acres served ² .	498,742	137,437	5,848	6,330	8,855	107,859	40,293	18,722	8,239
	DRAINAGE OPERATIONS, 1950-1959 ⁵									
22	Cost of drainage works and servicesprojects reporting	79	47	2		4	29	15	5	6
23	dollars	788,386	123,426	5,028		51,421	156,281	119,270	27,467	22,163
24	New drainage works constructed, enlarged, or installedprojects reporting	5	1	1			2	1	1	1
25	dollars	39,424	15,000	5,000			33,000	5,000	3,000	2,400
26	Open ditchesprojects reporting	2	1	1						1
27	length, miles	2.7	0.8	2.0						2.0
28	Tile or covered drainsprojects reporting	3	1				2	1		
29	length, miles	3.8	2.5				6.0	2.0		
30	Levees or dikesprojects reporting						1			
31	length, miles						0.1			
:•	Pumpsprojects reporting						1			
aa	number of pumpe						1			
34	Other (see text)projects reporting	2					1		1	
35	Cost of maintenance, operation, repair, and	76	46	1			28	15	5	<
36	administrationprojects reporting dollars	748,962	108,426	28		51,421	123,281	114,270	24,467	19,763
00	uotjaas	,,,	1,	1	l	1	227,002	12.,2.0		,,,,,,,

[^]Land served by two or more projects counted only once. ^Acres served by two projects are included for each project. See text. ^Includes projects taken over by another project prior to 1960. See text.

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

_										
	Item and Census year	De Kalb	De Witt	Douglas	Du Page	Edgar	Edwards	Effingham	Fayette	Ford
	AREA									
1	Approximate land areaacres 1960	¹ 407,040	255,360	268,800	211,840	401,920	144,000	308,480	459,520	312,320
2	Land in farmsacres 1959	1408,946	243,138	249,278	102,334	370,333	133,103	265,435	383,971	299,226
3	Drainage projectsnumber 1960	25	31	68	14	51	5	6	16	35
4	1950	25	31	74	15	51	4	5	15	34
5	Total area in drainage projects ² acres served 1960	74,111	96,451	174,772	22,854	142,248	6,830	5,143	47,124	166,429
6	1950	74,252	82,392	173,235	19,598	151,310	6,370	4,118	46,447	167,253
7	Area not used for agriculture or not drained acres served 1960				2,480					800
6	Net area drained and used for agriculture acres served 1960	74,111	96,451	174,772	20,374	142,248	6,830	5,143	47,124	165,629
9	Dramage established before 1950 acres served 1960	74,080	85,411	174,772	20,374	142,248	6,370	4,118	46,447	164,989
10	Area added, 1950-1959 acres served 1960	31	11,040				460	1,025	677	640
11	Area served by two or more projects acres served 1960	1,000	2,480	7,800		5,940	680			36,240
	PROJECTS, 1960, BY TYPE OF ORGANIZATION									
12	Drains owned by one landowner number of projects				3				1	
13	acres served ⁵				3,598				1,105	
14	Cooperative or mutual drainsnumber of projects	1	5		4	3		3	3	1
15	acres served ⁵	1,200	9,090		8,993	7,425		1,932	7,280	715
16	Legally organized public drains number of projects	24	26	68	7	48	5	3	12	34
17	acres served ⁵	73,911	89,841	182,572	7,783	140,763	7,510	3,211	38,739	209,814
	PROJECTS, 1960, BY YEAR STARTEO									
16	1950-1959number of projects		6				1	1	1	1
19	acres served ⁵ ,.		11,040				800	1,025	677	33,200
20	Prior to 1950number of projects	25	25	68	14	51	4	5	15	34
21	acres served ³	75,111	87,891	182,572	20,374	148,188	6,710	4,118	46,447	177,329
	DRAINAGE OPERATIONS, 1950-1959									
22	Cost of drainage works and servicesprojects reporting	9	21	36	4	25	5	5	10	25
23	dollars	95,699	306,779	211,350	26,298	145,658	52,941	19,233	193,496	744,685
24	New drainage works constructed, enlarged, or installed	1	8		1	2	1	2	2	2
25	dollars	106	148,776		200	3,388	5,000	9,785	52,000	453,242
26	Open ditches		6			1	1	2		1
27	length, miles		4.6			0.1	1.8	5.9		12.0
28	Tile or covered drainsprojects reporting	1	5		1	2		1		
29	length, miles	0.1	11.7		0.1	0.4		0.1		
30	Levees or dikes								2	
31	length, miles								5.5	
82	Pumpeprojects reporting									
33	number of pumpe									
34	Other (see text)		3							1
35	Cost of maintenance, operation, repair, and									
86	administrationprojects reporting dollars	95,593	158,003	36 211,350	26,098	142,270	47,941	9,448	9 141,496	291.443
20	dottars	77,793	1,0,000	211,300	20,098	142,270	47,941	9,448	141,496	291,443

The excess of farm acreage over approximate land area is due to the fact that the entire acreage of a farm is tabulated as in the county in which the headquarters is located, even though a part of the farm may be situated in an adjoining county.

Land served by two or more projects counted only occurred to the farm of the farm may be situated for each project. See text.

Area served by more projects are included for each project. See text.

Thicking projects taken over by morther project prior to 1960. See text.

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County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

	Item and Census year	Fulton	Gallatin	Greene	Grundy	Hemilton	Hancock	Henderson	Henry	Iroquois
	AREA									
1	Approximate land areaacres 1960	559,360	209,920	347,520	276,480	278,400	510,080	243,840	528,640	716,080
2	Land in farms	496,427	151,129	329,345	:41,444	204,431	462,656	211,514	505,43.	674,81)
3	Drainage projects	13	19	10	7	10	1	3	15	84
4	1950	12	-13	9	4	6	1	3	16	84
5	Total area in drainage projects 1	31,477	56,456	54,467	23,396	58,306	15,300	15,547	108,995	410,990
6	1950	29,778	52,746	53,467	10,482	58,175	15,300	19,057	107,178	405,437
7	Area not used for agriculture or not drained acres served 1960									2,080
6	Net area drained and used for agriculture acres served 1960	31,477	56,456	54,467	23,396	58,306	15,300	15,547	108,995	408,910
9	Drainage established before 1950 acres served 1960	29,778	53,616	53,467	19,929	58,175	15,300	15,547	108,995	401,227
10	Area added, 1950-1959 acres served 1960	1,699	2,840	1,000	3,467	191				7,683
11	Area served by two or more projects acres served 1980		2,888	60		3,650			4,500	11,700
	PROJECTS, 1980, BY TYPE OF ORGANIZATION									
12	Drains owned by one landowner number of projects			1		4				
13	acres served ²			1,585		3,781				
14	Cooperative or mutual drainsnumber of projects	2	6	1						4
15	acres served ²	3,165	5,698	60						4,092
16	Legally organized public drainsnumber of projects	11	13	8	7	6	1	3	15	80
17	acres served ²	28,312	53,646	52,882	23,396	58,175	15,300	15,547	113,575	416,518
	PROJECTS, 1960, BY YEAR STARTED									
18	1950-1959 number of projects	2	6	1	1	4				2
19	acres served 2	3,165	5,728	60	3,367	3,781				11,960
20	Prior to 1950number of projects	11	13	9	6	6	1	3	15	82
21	acres served 3	28,312	53,616	54,467	20,029	58,175	15,300	15.547	113,575	408,650
	DRAINAGE OPERATIONS, 1950-1959 ⁵									
22	Cost of drainage works and servicesprojects reporting	12	15	10	5	7	1	3	16	73
23	dollars	686,766	90,891	669,851	62,067	158,701	312,000	521,214	697,213	1,005,353
24	New drainage works constructed, enlarged, or installed	7	6	4	2	4	1	1	2	14
25	dollars	128,630	31,109	43,000	25,200	34,310	15,000	20,000	23,120	135,050
26	Open ditchesprojects reporting	1	6	4	1	4	1	1		7
27	length, miles	0.5	14.2	14.2	5.5	14.9	3.0	3.0		15.5
28	Tile or covered drainsprojects reporting				1	1				10
29	length, miles				2.1	14.5				6.6
30	Levees or dikesprojects reporting	2						1		
31	length, miles	10.2						3.0		
32	Pumpeprojects reporting	4		1			1		2	
33	number of pumps	4		1			2		3	
34	Other (see text)	5		1				1		
35	Cost of maintenance, operation, repair, and	12	10	9	5	,		2		20
36	administrationprojects reporting dollars	558.136	59,782	626,851	36.867	124.391	297.000	501 21/	16	72
36	dollars	228,136	59,782	626,851	36,867	124,391	297,000	501,214	674,093	870,303

¹Land served by two or more projects counted only once.

²Acres served by two projects are included for each project. See text.

²Includes projects taken over by another project prior to 1960. See text.

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

	Item and Census year	Jackson	Jasper	Jersey	Johnson	Kane	Kankakee	Kendall	Lake	La Salle
	AREA									
1	Approximate land areaacres 1960	385,920	316,800	239,360	220,800	330,240	435,200	204,800	292,480	737,920
2	Land in farmsacres 1959	253,987	278,521	202,722	121,861	275,207	378,632	192,965	139,127	666,951
8	Drainage projectsnumber 1960	5	12	3	4	25	44	5	18	38
4	1950	3	11	3	3	27	44	5	20	35
5	Total area in drainage projects1	41,340	19,210	10,717	14,092	63,275	144,198	12,830	33,951	85,759
6	1950	26,670	18,700	10,717	12,198	64,885	133,298	12,650	31,895	81,025
7	Area not used for agriculture or not drained scres served 1960						1,320			
8	Net area drained and used for agriculture acres served 1960	41,340	19,210	10,717	14,092	63,275	142,878	12,830	33,951	85,759
9	Drainage established before 1950 acres served 1960	41,340	18,700	10,717	13,592	63,275	131,968	12,830	33,951	81,980
10	Area added, 1950-1959 acres served 1960		510		500		10,910			3,779
11	Ares served by two or more projects scres served 1960	17,624		•••						760
	PROJECTS, 1960, BY TYPE OF ORGANIZATION									
19	Drains owned by one landowner number of projects				1	5				
13	acres served ²				500	4,209				
14	Cooperative or mutual drainsnumber of projects		6				2			8
15	acres served ²		6,073				4,300			11,632
16	Legally organized public drains number of projects	5	6	3	3	20	42	5	18	30
17	acres served ²	58,964	13,137	10,717	13,592	59,066	138,578	12,830	33,951	74,887
	PROJECTS, 1960, BY YEAR STARTED									
18	1950-1959number of projects		1		1		3			2
19	acres served ² .		510		500		11,880			3,314
20	Prior to 1950number of projects	5	11	3	3	25	41	5	18	36
21	acres served ²	58,964	18,700	10,717	13,592	63,275	130,998	12,830	33,951	83,205
	DRAINAGE OPERATIONS, 1950-1959 ⁵									
25	Cost of drainage works and services	5	11	3	3	10	34	5	9	13
23	dollars	328,862	60,182	202,900	17,992	121,105	386,519	70,533	70,182	99,356
24	New drainage works constructed, enlarged, or installed	1	3	1	1	3	10		3	4
25		3,000	7,692	16,000	5,000	42,060	176,500		24,450	51,911
26		1	3	1	1	1	8		1	3
21		3.0	8.9	8.0	6.6	7.5	26.5		1.0	10.8
28	Tile or covered drains					2	3		1	3
29						1.4	9.0		3.0	5.5
30	Levees or dikesprojects reporting				1					
31					1.0					
35	Pumpeprojects reporting									
3	number of pumps									
3	Other (see text))				1	
35		5	10					_	_	
34	administrationprojects reporting dollars	325,862		3	12.000	8	32	5	8	10
31	gollars	327,062	52,490	186,900	12,992	79,045	210,019	70,533	45,732	47,445

Land served by two or more projects counted only once. Acres served by two projects are included for each project. See text. Sincludes projects taken over by another project prior to 1960. See text.

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County Table 1. –DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

Item and Census year	Lawrence	Lee	Livingston	Logan	McHenry	McLean	Macan	Macoupin	Madison
AREA									
Approximate land areaacres 1960	239,360	466,560	667,520	398,080	391,040	750,720	368,640	558,080	467,940
Land in farmsacres 1959	172,299	436,999	637,716	384,481	316,645	722,554	329,714	496,470	354,024
Drainage projectsnumber 1960	14	15	52	17	16	39	70	11	7
1950	14	14	52	14	16	36	75	8	7
Total area in drainage projects 1 acres served 1960	76,996	89,165	157,979	103,572	55,669	173,643	115,977	12,293	34,267
1950	82,324	89,130	118,638	49,022	55,135	165,512	105,618	9,593	26,567
Area not used for agriculture or not drained acres served 1960	3,000						500		13,630
Not area drained and used for agriculture acres served 1960	73,996	89,165	157,979	103,572	55,669	173,643	115,477	12,293	20,637
Drainage established before 1950 acres served 1960	73,996	89,165	121,532	103,572	55,669	169,248	112,312	10,893	20,637
Area added, 1950-1959 acres served 1960			36,447			4,395	3,165	1,400	
Area served by two or more projects acres served 1960	25,889	698	3,636				320	77	
PROJECTS, 1960, BY TYPE OF ORGANIZATION									
Drains owned by one landowner number of projects			1	1					
acres served ²			2,241	30,388					
Cooperative or mutual drainsnumber of projects			10	3		5	9	4	
acres served ²			10,900	6,450		12,018	8,135	3,560	
Legally organized public drains number of projects	14	15	41	13	16	34	61	7	7
acres served ² .	101,705	89,863	148,474	66,734	55,669	161,625	107,662	8,810	20,637
PROJECTS, 1960, BY YEAR STARTED									
1950-1959 number of projects			1			3	4	1	
acres served 2			41,120			4,395	3,485	1,400	
Prior to 1950number of projects	14	15	51	17	16	36	66	10	7
acres served ²	101,705	89,863	120,495	103,572	55,669	169,248	112,312	10,970	20,637
DRAINAGE OPERATIONS, 1950-1959 3									
Cost of drainage works and servicesprojects reporting	13	13	29	14	5	26	45	. 8	7
dollars	413,612	392,920	702,959	160,571	33,883	435,225	231,008	32,975	3,088,730
New drainage works constructed, enlarged, pr installedprojects reporting	3		4	4		9	11		2
dollars	154,325		637,973	10,450		131,370	83,571		2,780,000
Open ditchesprojects reporting	1		3	3		6	6		1
length, miles	0.3		22.6	5.1		6.1	15.4		7.0
Tile or covered drainsprojects reporting			2	1		4	10		1
length, miles			2.2	1.2		2.8	14.5		1.0
Levees or dikesprojects reporting	2								1
length, miles	2.8								21.0
Pumpeprojects reporting									2
aumber of pumps									8
Other (see text)			1			8	6		1
Cost of maintenance, operation, repair, and administration	13	13	28	12	5	25	42	8	7
dollars	259,287	392,920	64,986	150,121	33,883	303,855	147,437	32,975	308,730

¹Land served by two or more projects counted only once.

²Acres served by two projects are included for each project. See text.

³Includes projects taken over by another project prior to 1960. See text.

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959 [See text for comparability of 1960 and 1950 data]

-									_	
	Item and Census year	Marion	Marshall	Magon	Magssc	Menard	Mercer	Monroe	Montgomery	Morgan
	AREA									
1	Approximate land areaacres 1960	371,200	252,800	346,240	157,440	199,680	355,840	243,200	451,840	361,600
2	Land in farms	292,232	228,175	302,272	107,360	188,659	336,234	216,705	409,682	342,085
3	Drainage projectsnumber 1960	3	4	19	1	3	2	10	60	9
4	1950		4	18	1	. 3	2	9	55	7
5	Total area in drainage projects 1	1,900	6,565	110,749	36,847	11,264	20,963	60,009	73,919	15,677
6	1950		6,565	110,749	38,847	11,264	20,963	56,331	69,936	15,599
7	Area not used for agriculture or not drained acres served 1960				2,048					
	Not area drained and used for agriculture acres served 1960	1,900	6,565	110,749	34,799	11,264	20,963	60,009	73,919	15,677
9	Dramage established before 1950 acres served 1960		6,565	110,749	34,799	11,264	20,963	57,209	73,919	15,117
10	Area added, 1950-1959	1,900						2,800		560
11	Area served by two or more projects	1,500		5,988		2,644		17,257	5,930	3,100
11	Area served by two or more projects acres served 1300	!		2,500		2,044		11,251	2,750	5,100
	PROJECTS, 1960, BY TYPE OF ORGANIZATION									
12	Drains owned by one landowner number of projects									1
13	acres served ²									560
14	Cooperative or mutual drainsnumber of projects	3							6	
15	acres served ²	1,900							5,690	
16	Legally organized public drainsnumber of projects		4	19	1	3	2	10	54	8
17	acres served ²		6,565	116,737	34,799	13,908	20,963	77,266	74,159	18,217
	PROJECTS, 1960, BY YEAR STARTED									
18	1950-1959 number of projects	3						1	l	2
19	acres served ²	1,900						2,800		1,820
	Prior to 1950		4	19	1	3	2	9	60	7
21	acres served ²		6,565	116,737	34,799	13,908	20,963	74,466	79,849	16,957
	DRAINAGE OPERATIONS, 1950-1959	3							48	7
	Cost of drainage works and servicesprojects reporting		2	15	1	3	2	10		
23	dollars	2,599	6,234	349,586	224,208	33,818	581,787	476,726	97,909	141,622
24	New drainage works constructed, enlarged, or installedprojects reporting	3				1	1	2		1
25	dollars	2,599				1,400	70,000	104,200		5,000
26	Open ditchesprojects reporting	3						2		1
27	length, miles	5.2						3.0		3.0
26	Tile or covored drainsprojects reporting							2		
29	length, miles							0.2		
30	Levees or dikes							1		
31	length, miles							4.0		
32	Pumpeprojects reporting					1		1		
33	number of pumps					1		1		
34	Other (see text)projects reporting						1			
35	Cost of maintenance, operation, repair, and									
	administrationprojects reporting		2	15	1	3	2	10	48	7
36	dollars		6,234	349,586	224,208	32,418	.511,787	372,526	97,909	136,622

¹Land served by two or more projects counted only once.

²Acres served by two projects are included for each project. See text.

³Includes projects taken over by another project prior to 1960. See text.

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County Table 1. –DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

	Item and Census year	Moultrie	Ogle	Pe ori a	Piatt	Pike	Pape	Pulaski	Putnam	Randolph
	AREA									
1	Approximate land greascres 1960	220,800	484,480	399,360	279,680	530,560	243,840	130,560	106,240	380,160
2	Land in farmsactes 1969	205,096	460,208	322,019	275,720	469,337	109,935	92,307	92,318	316,417
3	Drainage projectsnumber 1960	40	4	4	52	21	2	6	1	5
4	1950	38	4	4	51	12	3	5	1	5
5	Total area in drainage projects 1	74,576	13,360	7,994	185,883	108,673	14,119	45,643	2,556	33,780
6	1950	71,353	13,127	9,354	180,806	107,229	15,579	45,523	2,525	33,780
7	Area not used for agriculture or not drained acres served 1960					207,227	20,010	1,200	.,,,,	35,700
	Not area drained and used for agriculture acres served 1980	74,576	13,360	7,994	185,883	108,673	14,119	44,443	2,556	33,780
	Drainage established before 1950 scres served 1960	74,576	13,360	7,994	183,999	108,673	14,119	44,323	2,556	33,780
10	Area added, 1950-1959				1,884			120		

11	Area served by two or more projects acres served 1960	713			4,435	58,694		480	***	2,525
	PROJECTS, 1980, BY TYPE OF ORGANIZATION									
12	Drains owned by one landowner number of projects				1	3				
13	acres served ² ,,				1,000	6,081				
14	Cooperative or mutual drainsnumber of projects	3			6	4		1		
15	acres served ²	3,530			7,670	10,192		600		
16	Legally organized public drains number of projects	37	4	4	45	14	2	5	1	,
17	acres served2	71,759	13,360	7,994	181,648	161,940	14,119	44,323	2,556	36,305
							,=-			30,303
	PROJECTS, 1980, BY YEAR STARTED									
18	1950-1959 number of projects	1			2	8		1	***	
19	acres served ²	713		•••	1,884	22,004	• • • •	600		
20	Prior to 1950number of projects	39	4	4	50	13	2	5	1	5
21	acres served ²	74,576	13,360	7,994	188,434	156,209	14,119	44,323	2,556	36,305
	DRAINAGE OPERATIONS, 1950-1959									
22	Cost of drainage works and servicesprojects reporting	35	2	3	44	21	2	5	1	5
23	dollars	217,712	34,326	167,150	555,754	905,766	16,115	132,726	180,648	110,271
24	New drainage works constructed, enlarged, or installed	5			9	9		1	1	
25	dollars	45,742			36,774	281,983		3,180	65,000	
26	Open ditchesprojects reporting	3			5	3		1		• • • • • • • • • • • • • • • • • • • •
27	length, miles	1.7			8.7	9.0		1.4		
28	Tile or covered drainsprojects reporting	3			7	2				
29	length, miles	0.7			5.0	0.2			:::	
30	Levees or dikes					4				
31	length, miles					4.5			• • • • • • • • • • • • • • • • • • • •	
32	Pumpeprojects reporting				• • • • • • • • • • • • • • • • • • • •	8 8				
33	number of pumps			1			•••	***	1	
34						11			1	
	Other (see text)				2	6			1	
35	Cost of maintenance, operation, repair, and administration	34	2	3	42	19	2	4	1	5
36	dollars	171,970	34,326	167,150	518,980	623,783	16,115	129,546	115,648	110,271

land served by two or more projects counted only once. Acres served by two projects are included for each project. See text. Includes projects taken over by another project prior to 1960. See text.

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

_			1	parability of 1se		-					
	Item and Census year	Richland	Rock Island	St. Clair	Saline	Sangamon	Schuyler	Scott	Shelby	Stark	Tazewell
ĺ	AREA										
1	Approximate land area	232,960	268,800	428,800	245,760	563,200	277,760	160,640	494,080	186,240	417,920
2	Land in farmsacres 1959	208,682	220,435	316,109	149,486	499,137	249,143	155,885	438,702	179,257	359,893
3	Drainage projectsnumber 1960	2	9	6	18	15	4	7	41	1	11
4	1950	2	9	6	16	11	4	5	38	1	11
5	Total area in drainage projects 1	4,020	25,714	18,579	75,400	29,903	14,788	29,687	64,288	3,598	38,034
6	1950	4,020	26,539	16,749	59,600	21,343	15,803	29,687	63,259	3,598	36,166
7	Area not used for agriculture or not drained , acres served $1960\ldots$		1,100		2,860	2,957					
8	Net area drained and used for agriculture acres served 1960	4,020	24,614	18,579	72,540	26,946	14,788	29,687	64,288	3,598	38,034
9	Dramage established before 1950 acres served 1960	4,020	24,614	18,579	72,540	26,306	14,788	29,687	63,168	3,598	35,999
0	Area added, 1950-1959 acres served 1960					640			1,120		2,035
1	Area served by two or more projects, acres served 1960				1,000	400		700	1,959		
	PROJECTS, 1980, BY TYPE OF ORGANIZATION										
12	Drains owned by one landowner number of projects					3					1
13	acres served ²					5,280					561
14	Cooperative or mutual drainsnumber of projects		1		1	2		1	9		1
15	acres served ²		3,950		800	1,475		660	7,454		2,035
16	Legally organized public drainsnumber of projects	2	8	6	17	10	4	6	32	1	9
17	acres served ²	÷,020	20,664	18,579	72,740	20,591	14,788	29,727	58,793	3,598	35,438
	PROJECTS, 1960, BY YEAR STARTED										
18	1950-1959					1		2	2		1
19	acres served ²					640		700	1,120		2,035
20	Prior to 1950 number of projects	2	9	6	18	. 14	4	5	39	1	10
21	acres served 2 .	4,020	24,614	18,579	73,540	26,706	14,788	29,687	65,127	3,598	35,999
	DRAINAGE OPERATIONS, 1950-1959 ³										
22	Cost of dramage works and servicesprojects reporting		7	5	7	6	3	7	27	1	9
23	dollars		332,209	149,740	164,467	28,488	426,293	491,892	63,646	1,800	703,458
24	New drainage works constructed, enlarged, or installed		1	1		1	2	3	2		3
25	dollars		3,000	112,000		2,000	104,000	78,710	15,320		67,100
26	Open ditchesprojects reporting		1	1		1	1	3	1		2
27	length, miles		0.5	3,6		0.6	2.0	1.8	1.3		2.4
28	Tile or covered drainsprojects reporting			1			1		1		1
29	length, miles			0.2			2.0		3.4		0.4
30	Levees or dikesprojects reporting						1				1
1	length, miles						4.0				1.5
12	Pumpsprojects reporting						2	1			
3	number of pumps						2	2			
4	Other (see text)							1	1		1
35	Cost of maintenance, operation, repair, and administration		7	5	7	5	3	6	25	1	8
36	dollars		329,209	37,740	164,467	26,488	322,293	413,182	48,326	1,800	636,358
			L			L			L		

Land served by two or more projects counted only once.

Acres served by two projects are included for each project. See text.

Includes projects taken over by another project prior to 1960. See text.

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

_													
	Item and Census year	Union	Vermilion	Wabash	Warren	Wayne	White	Whiteside	W111	Winnebago	Woodford		
	AREA		1										
1	Approximate land areancres 1980	264,960	574,720	141,440	346,880	457,600	320,640	441,600	540,800	332,800	343,680		
2	Land in farmsacres 1959	160,131	501,713	123,536	331,181	357,690	284,074	413,238	406,823	268,793	308,880		
3	Drainage projectsnumber 1960	21	80	16	2	15	28	35	39	3	10		
4	1950	5	87	18		11	25	32	35	3	5		
6	Total area in drainage projects 1	39,214	209,779	30,391	1,980	72,685	60,368	149,373	71,218	3,272	37,880		
6	1950	36,524	219,324	30,391		77,225	58,323	148,246	61,162	3,272	23,070		
7	Area not used for agriculture or not drained acres served 1980		1,400					3,680	1,280				
8	Net area drained and used for agriculture acres served 1960	39,214	208,379	30,391	1,980	72,685	60,368	145,693	69,938	3,272	37,880		
9	Dramage established before 1950 acres served 1960	36,524	206,689	30,391		69,205	59,668	145,693	67,738	3,272	27,370		
10	Area added, 1950-1959 acres served 1960	2,690	1,690		1,980	3,480	700		2,200		10,510		
11	Area served by two or more projects, acres served 1960	8,529	9,110			3,560	5,870	14,102					
	PROJECTS, 1980, BY TYPE OF ORGANIZATION												
12	Drains owned by one landowner number of projects	7				2	1	.,.	1				
13	acres served ²	4,357				2,480	700		2,200				
14	Cooperative or mutual drainsnumber of projects	8	3		2	2,100	2		1	1	4		
15	acres served ²	6,862	8,800		1.980	3,240	1,260		500	652	12,910		
16	Legally organized public drains number of projects	6	77	16	,,,,	11	25	35	37	2	6		
17	acres served ²	36,524	213,199	30,391		70,525	64,278	159,795	67,238	2,620	24,970		
	DECEMBER AND DESIGNATION OF THE PROPERTY OF TH												
	PROJECTS, 1980, BY YEAR STARTED												
	1950-1959	15	2		2	4	2	•••	1		4		
19	acres served*	11,219	2,250		1,980	5,720	1,200		2,200		10,510		
20	Prior to 1950number of projects acres served ²	36,524	219,749	30,391		70,525	26 65,038	35 159,795	38 67,738	3	27,370		
21	acres served	30,524	219,749	30,391		70,525	65,038	159,795	67,738	3,272	27,370		
	DRAINAGE OPERATIONS, 1950-1959												
	Cost of drainage works and services	21	54	14	2	9	15	27	23	1	6		
23	dollars	1,833,092	372,611	91,688	32,413	226,621	103,188	550,264	159,266	159	98,386		
24	New drainage works constructed, enlarged, or installed	17	8		2	4	2	3	6		4		
25	dollars	1,720,071	54,502		32,413	23,440	6,468	21,000	64,400		79,047		
26	Open ditchesprojects reporting	15	5		1	4	2	1	2		1		
27	length, miles	21.5	11.7		0.3	18.5	9.3	0.5	1.5		4.0		
28	Tile or covered drainsprojects reporting		3		2				4		3		
29	length, miles		1.3		3.8				6.0		9.8		
30	Levees or dikes	2						1	1				
31	length, miles	13.0						4.0	0.1				
32	Pumpeprojects reporting							1					
33	number of pumps							1					
84	Other (see text)	2	2						1				
35	Cost of maintenance, operation, repair, and administration	6	50	14		5	13	27	22	1	2		
36	dollars	113,021	318,109	91,688		203,181	96,720	529,264	94,866	159	19,339		
			L	<u> </u>									

land served by two or more projects counted only once.

*Acres served by two projects are included for each project. See text.

*Includes projects taken over by another project prior to 1960. See text.

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State Table 1. – DRAINAGE PROJECTS-NUMBER, AREA, COST, AND WORKS, 1920 TO 1960

See text for comparability of data

1.55	text for comparability of d	ıtı.			
Item	1960 Census	1950 Census	1940 Census	1930 Census	1920 Census
AREA					SCHEAD
Approximate land areaacros	23,158,400	23,171,200	23,171,200	23,068,800	23,068,80
Land jo farms	18,613,046	19,658,677	19,800,778	19,688,675	21,063,33
Drainage projects	292	79	18,893	NA.	1
Total area in drainage projects	11,120,936	11,017,709	10,121,952	10,214,014	9,087,18
Area not used for agriculture or not drained	67,490	NA.	NA.	NA.	1
Not area drained and used for agriculture	11,053,446	NA	29,703,805	210,150,221	N N
Drainage established 10 years or more before Census date	10,980,064	NA	NA.	1.A	N
Drainage established within 10 years of Census dateacres sen ed	73,382	NA.	NA.	NA.	N N
Area served by two or more projects	210,322	NA.	9,850,573	12,835,773	5,928,03
PROJECTS BY TYPE OF ORGANIZATION				,	,,,,,,,
Orains owned by one landowner	18	(3)	NA.	NA.	
acres served	22,765	(8)	1,000	15,726	K.
Cooperative or mutual drains	188	(3)			
acres served	237,047	(3)			
Logally organized public drains	86	379	NA.	NA NA	
acres served	11,008,036	311,017,709	10,120,952	10,198,288	N 40 212 22
	11,000,000	11,017,707	10,120,952	10,196,288	49,749,19
PROJECTS BY YEAR STARTEO					
Started 10 years or more before Census date	138	NA.	NA.	NA.	N.
acres served	11,070,844	NA.	9,242,358	9,555,509	46,861,18
Started within 10 years of Census date	154	NA	NA.	NA.	N.
acres sen ed	197,004	NA.	879,594	658,505	42,220,090
OPERATIONS, 10-YEAR PERIOD PRECEDING CENSUS DATE					
Cost of drainage works and services	254	75	NA.	NA.	N/
dollars	13,598,832	8,206,459	NA.	NA.	N/
New drainage works constructed, enlarged, or installed projects reporting	1.58	522	NA.	NA.	N
cost, dollars	2,528,431	⁵ 785,767	NA NA	NA.	N/
Open ditches,	135	19	NA.	NA.	N/
length, males	487.0	198	NA.	NA.	NA
Tile or covered drains projects reporting	57	13	NA.	NA NA	N
length, miles	160.0	48	NA.	NA.	N
Levees or dikes	2	2	NA.	NA.	N.
length, mules	0.3	20	NA.	NA.	N/
Pumps projects reporting	1	N.A.	NA.	NA.	N/
number of pumps	1	NA.	NA.	NA.	N/
Other (see text)	36	NA	NA.	NA.	N.
Cost of maintenance, operation, repair, and administration projects reporting	162	75	NA.	NA.	N
dollars	11,070,401	7,420,692	NA.	NA.	N
STATUS ON CENSUS DATE					
Sepital investmentdollars	NA NA	NA	47,540,385	54,110,854	31,147,68
Physical works: Open disches. length, miles	NA.	NA	22,008.1	20,786.8	17,470.
Tile drains length, miles	NA NA	NA NA	10,754.7	10,438.7	8,227.0
Levees and dikes. length, miles	NA NA	NA NA	139.0	10,438.7	165.8
Pumping units	NA NA	NA NA	139.0	7	N/
number of units.	NA.	NA NA	,		NA

MA Not available.

In 1940 each county drain was counted as a separate project. See text.

Flot fully comparable. See text.

All projects in 1950 included with county drains. See text.

1320 figures exclude 33,567 sacres for which type was not reported; and 5,909 acres for which date of organization was not reported.

Poset of new works for lands not previously drained.

State Table 2.-DRAINAGE

			ed and used lture, 1960	Ares	by period drains	nge was establish	be
Size of project (Based on area of agricultural land in project)	Number of projects		Served by two	Befor	e 1950	Area added	1950-1959
		Total (acres)	or more projects (acres)	Projects reporting	Acres	Projects reporting	Acres
All projects	292	11,267,848	424,724	265	11,194,466	60	73,38
500 to 999 acres	120	80,373	57,258	100	62,216	34	18,15
1,000 to 1,999 acres	59	77,882	58,743	53	64,252	16	13,63
2,000 to 4,999 acres	28	82,548	55,037	27	75,878	3	6,67
5,000 to 9,999 acres	12	85,208	33,664	12	85,208		
10,000 to 19,999 acres	8	101,632	12,500	8	101,632		
20,000 to 49,999 scres	8	273,059	19,379	8	273,059		
50,000 to 99,999 acres	6	479,819	9,196	6	479,819		
100,000 or more acres	51	10,087,327	178,947	51	10,052,402	7	34,92

State Table 3.-DRAINAGE PROJECTS, 1960,

		Area draine for agricul		Area	by period drains	ge was establishe	d	
Type of organization	Number of projects	Total	Served by two	Before	1950	Area added	1950-1959	
	,	(scres)	or more projects (acres)	Projects reporting	Acres	Projects reporting	Acres	
All projects.	292	11,267,848	424,724	265	11,194,466	60	73,38	
Drains owned by one landowner	18	22,765	16,755	16	16,755	5	6,01	
Cooperative or mutual drains	188	237,047	182,647	163	204,600	48	32,44	
Legally organized public drains	86	11,008,036	225,322	86	10,973,111	7	34,92	

State Table 4.-DRAINAGE PROJECTS, 1960,

	Area drained for agricul		Area by period drainage was established						
Number of		Served by two	Befor	≥ 1950	Area added	1950-1959			
projects	Total (acres)	or more projects (acres)	Projects reporting	Acres	Projects reporting	Acres			
292	11,267,848	424,724	265	11,194,466	60	73,3			
154	197,004	136,857	127	160,397	49	36,6			
138	11,070,844	287,867	138	11,034,069	11	36,5			
	292 154	Number of projects Total (acres) 292 11,267,848 154 197,004	projects Total or some projects (acres) projects (acres) 292 11,267,848 424,724 154 197,004 136,857	Number of projects	Number of projects	Number of projects			

PROJECTS, 1960, BY SIZE

г.	Uther	ps	Frum	nd dikes	Levees a	red drains	Tile or cov	itches	Open d	works	For new	tal	To
cts	project reporti	Number	Frojects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting
3		1	1	0.3	2	160.0	57	487.0	135	2,528,431	158	13,598,832	254
2						17.4	20	88.0	67	350,284	81	438,302	105
		1	1	0.1	1	8.4	10	41.5	31	171,858	33	289,573	50
				0.2	1			19.5	9	78,396	9	190,766	23
	ĺ							19.5	3	31,078	3	91,920	8
	ĺ											291,804	5
	ĺ					0.4	2	3.3	2	8,281	2	240,673	7
	ĺ					0.6	1	3.1	1	9,651	1	180,343	6
						133.2	24	312.1	22	1,878,883	29	11,875,451	50

BY TYPE OF ORGANIZATION

Cost of da	rainage works	and services,	1950-1959			New works constructed, enlarged, or installed, 1950-1959								
To	tal	For new	works	Open ditches		Tile or cove	red drains	Levees and dikes		Fumps		Other,		
Projects reporting	Dollars	Projects reporting	Dollars	Frojects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Frojects reporting	Number	projects reporting		
254	13,598,832	158	2,528,431	135	487.0	57	160.0	2	0.3	1	1	36		
13	89,798	7	56,608	7	10.7					1	1			
168	828,565	119	575,008	103	157.8	30	25.8	2	0.3			30		
73	12,680,469	32	1,896,815	25	318.5	27	134.2					6		

BY YEAR OF ORGANIZATION

Cost of d	rainage works	and services,	1950-1959			New works	constructed, en	nlarged, or i	nstalled, 195	0-1959			
Total For new works				Open d:	tches	Tile or cov	ered drains	Levees a	nd dikes	Pur	mps	Other,	
Projects reporting	Dollars	Frojects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number	projects reporting	
254	13,598,832	158	2,528,431	135	487.0	57	160.0	2	0.3	1	1	36	
153	821,884	115	575,843	100	156.9	27	22.5	1	0.1			27	
101	12,776,948	43	1,952,588	35	330.1	30	137.5	1	0.2	1	1	9	

County Table 1. - DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959 [See text for comparability of 1960 and 1950 data]

	Item and Census year	The State	Adams	Allen	Barthol-	Benton	Blackford	Boone	Carroll	
	Ivon an Consus you	The boave	Audulo	Atten	omew	Denion	BIRCKLOPE	boone	Carroli	Cass
	AREA									
1	Approximate land areaacres 1960	23,158,400	220,800	428,800	256,640	261,760	106,880	273,280	239,360	265,600
2	Land in farmsacres 1959	18,613,046	205,464	336,029	192,708	252,328	91,619	246,619	230,248	241,290
3	Drainage projectsnumber 1960	292	11	10	1	21	1	2	6	15
4	1950	79	1	1	1	1	1	1	1	1
5	Total area in drainage projects 1	11,120,936	191,360	347,976	36,096	194,199	103,168	246,571	174,265	175,068
6	1950	11,017,709	191,360	349,056	36,096	190,244	103,168	231,496	172,825	172,288
7	Area not used for agriculture or not drained acres served $1980\ldots$	67,490		4,160			1,040			
6	Not area drained and used for agriculture acres served 1960	11,053,446	191,360	343,816	36,096	194,199	102,128	246,571	174,265	175,068
9	Drainage established before 1950 acres served 1960	10,980,064	191,360	343,216	36,096	188,984	102,128	231,496	174,265	173,268
10	Area added, 1950-1959 acres served 1960	73,382		600		5,215	•••	15,075	•••	1,800
11	Area served by two or more projects acres served 1960	210,322	7,538	6,680		15,321		5,500	7,670	12,884
	PROJECTS, 1960, BY TYPE OF ORGANIZATION									
12	Drains owned by one landowner number of projects	18				1			1	
13	acres served ²	22,765				1,250			3,500	
14	Cooperative er mutual drainsnumber of projects	188	10	9		19		1	4	14
15	acres served ²	237,047	7,538	7,280		20,261		5,500	5,610	15,184
16	Legally organized public drainsnumber of projects	86	1	1	1	1	1	1	1	1
17	acres served ²	11,008,036	191,360	343,216	36,096	188,009	102,128	246,571	172,825	172,768
	DOO TOOM ALAN DIVING ON DOTTE									
	PROJECTS, 1960, BY YEAR STARTED	154	10	9		9	i	1	4	
19	1950-1959number of projects	197,004	7,538	7,280		10,007		5,500	5,910	10,664
20	Prior to 1950	138	1,550	1		10,007	"1	1	2	6
21	acres served ²	11,070,844	19.,360	343,216	36,096	199,513	102,128	246,571	176,025	177,288
			,	,	,					,
	DRAINAGE OPERATIONS, 1950-1959 ³									
	Cost of drainage works and services	254	11	10	1	14	1	2	6	15
23	dollars	13,598,832	46,317 عبد	639,420	8,696	196,092	270,717	358,377	205,466	347,423
24	New drainage works constructed, enlarged, or installed	158	10	9		12		2	6	6
25	dollars	2,528,431	25,565	26,006		151,819		110,069	151,419	86,015
26	Open ditches	135	10	8		12		1	5	2
27	length, miles	487.0	15.4	13.8		44.5		8.0	4.4	22.3
28	Tile or covered drainsprojects reporting	57		1	·	2		1	3	6
29	length, males	160.0		0.4		0.2		10.6	19.5	24.8
30	Levees or dikes	2							1	
31	length, mules	0.3							0.2	
32	Pumpsprojects reporting	1						• • • • • • • • • • • • • • • • • • • •		•••
33	number of pumpe	1								
34	Other (see text)	36				5		•••	3	
35	Cost of maintenance, operation, repair, and administrationprojects reporting	162	1	1	1	8	1	1	6	14
36	dollare	11,070,401	322,752	613,414	8,696	44,273	270,717	248,308	54,047	261,408
			,		,	,				

¹Land served by two or more projects counted only once.

²Acres served by two projects are included for each project. See text.

³Includes projects taken over by another project prior to 1960. See text.

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

T									
Item and Census year	Clay	Clinton	Daviess	Decatur	De Kalb	Delsware	Dubois	Elkhart	Fayette
AREA									
1 Approximate land areaacres 1980	232,960	260,480	277,120	236,800	233,600	254,720	277,120	299,520	137,600
2 Land in farmsacree 1959	176,438	247,355	243,247	220,507	210,958	200,950	219,488	234,575	120,871
3 Drainage projectsnumber 1960	4	5	1	2	1	1	2	2	2
1950	1	1	1	1	1	1	1	1	1
Total area in drainage projects 1 scree served 1960	36,736	205,824	153,600	4,852	212,736	218,624	9,219	212,736	12,858
5 1950	34,976	205,824	153,600	4,352	212,736	218,624	8,704	212,736	11,878
7 Area not used for agriculture or not drained acres served 1980,			2,720						
8 Net area drained and used for agriculture acres served 1980,	36,736	205,824	150,880	4,852	212,736	218,624	9,219	212,736	12,858
Drainage established before 1950 acres served 1960	34,976	205,824	150,880	4,352	212,736	218,624	8,704	212,736	11,878
0 Area added, 1950-1959 acres served 1960	1,760			500			515		980
Area served by two or more projects acres served 1980	1,000	4,092		•••				600	
PROJECTS, 1960, BY TYPE OF ORGANIZATION									
2 Drains owned by one landowner number of projects	2								
3 acres served ²	2,760								
4 Cooperative or mutual drainsnumber of projects		4		1			1	1	1
5 acres served ²		4,092		500			515	600	980
6 Legally organized public drainsnumber of projects	2	1	1	1	1	1	1	1	1
7 acres served ²	34,976	205,824	150,880	4,352	212,736	218,624	8,704	212,736	11,878
PROJECTS, 1960, BY YEAR STARTED									
6 1950-1959 number of projects	1	4		1			1		1
g acres served ²	1,760	4,092		500			515		980
0 Prior to 1950 number of projects	3	1	1	1	1	1	1	2	1
1 acres served ²	35,976	205,824	150,880	4,352	212,736	218,624	8,704	213,336	11,878
DRAINAGE OPERATIONS, 1950-1959 B									
2 Cost of drainage works and services	4	5	1	(4)	1	1	1	2	2
dollars	120,646	162,784	298,886	(4)	384,073	314,918	6,597	82,406	36,054
4 New drainage works constructed, enlarged, or installed	(4)	5	1	(4)			1	1	1
5 dollars	(4)	126,510	47,394	(4)			6,597	20,572	17,592
8 Open ditchesprojects reporting	(4)	5	1				1	1	
7 length, miles	(4)	6.1	47.0				3,3	4.7	
8 Tile or covered drainsprojects reporting		2		(4)					1
9 length, miles		19.5		(4)					2.0
0 Levees or dikesprojects reporting									
length, miles									
2 Pumpsprojects reporting	(4)								
3 number of pumps	(4)								
4 Other (see text)		4							
5 Cost of maintenance, operation, repair, and	3	5	,		,	1		2	,
administrationprojects reporting	_		_			_	•••		_
6 dollars	103,546	36,274	251,492	•••	384,073	314,918		61,834	18,462

land served by two or more projects counted only once.
Acres served by two projects are included for each project. See text.
Includes projects taken over by another project prior to 1960. See text.
Included in State total only.

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

Item and Census year	Fountsin	Franklin	Fulton	Gibson	Grant	Greene	Hamilton	Hancock	Harrison
AREA									
1 Approximate land area	254,080	252,160	234,880	319,360	269,440	351,360	256,640	195,200	306,56
Land in farms	234,029	215,804	223,161	256,183	223,877	247,729	216,917	190,543	224,65
Drainage projectsnumber 1960	8	1	3	3	1	1	2	1	
1950	1	1	1	1	1	1	1	1	
Total area in drainage projects 1	31,798	9,216	219,110	240,000	224,398	134,179	180,642	137,856	1,90
1950	27,892	9,216	219,110	240,000	224,398	131,979	180,642	137,856	
Area not used for agriculture or not drained acres served 1960				1,040	6,560	1,440			
Net area drained and used for agriculture acros served 1960	31,798	9,216	219,110	238,960	217,838	132,739	180,642	137,856	1,90
Drainage established before 1950 acres served 1960	27,892	9,216	219,110	238,960	217,838	132,739	180,642	137,856	1,90
Area edded, 1950-1959 acres served 1960	3,906								
Area served by two or more projects acres served 1960	579		2,650				650		
PROJECTS, 1980, BY TYPE OF ORGANIZATION	İ								
Drains owned by one landowner number of projects							1		
acres served ²							650		
Cooperative or mutual drainsnumber of projects	7		2						
acres served ²	6,065		2,650						
Legally organized public drains number of projects	1	1	1	3	1	1	1	1	
acres served ²	26,312	9,216	219,110	238,960	217,838	132,739	180,642	137,856	1,90
PROJECTS, 1960, BY YEAR STARTED									
1950-1959	4)	2	2			1		
acres served ²	4,146		2,650	23,300			650		
Prior to 1950number of projects	4	1	1	1	1	1	1	1	
acres served ²	28,231	9,216	219,110	215,660	217,838	132,739	180,642	137,856	1,90
DRAINAGE OPERATIONS, 1950-1959 ⁵									
Cost of drainage works and services	7	1	3 ;	3	1	1	2	1	
dollars	43,425	5,065	570,462	135,339	540,000	195,149	295,263	315,652	
New drainage works constructed, enlarged, or installed	6	***	3					1	
dollars	36,766		44,929					5,751	
Open ditchesprojects reporting	6		3						
length, miles	9.6		8.1						
Tile or covered drainsprojects reporting	2		2					1	
length, miles	0.7		1.1					1.2	
Levees or dikes									
length, miles									
Pumpaprojects reporting									
number of pumps									
Other (see text)projects reporting	6		1						
Cost of maintenance, operation, repair, and									
administration,	2	1	2	3	1	1	2	1	•••
dollars	6,659	5,065	525,533	135,339	540,000	195,149	295,263	309,901	• • •

¹Land served by two or more projects counted only once.

²Acres served by two projects are included for each project. See text.

²Includes projects taken over by another project prior to 1960. See text.

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County Table 1. - DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

Item and Census year	Hendricks	Henry	Howard	Hunting- ton	Jackson	Jasper	Jay	Jennings	Johnson
AREA									
1 Approximate land areaacres 1960	266,880	256,000	186,880	249,600	332,800	359,040	247,040	241,280	201,60
2 Land in farmsacree 1959	242,126	226,027	171,755	220,036	229,781	328,935	221,508	170,205	166,15
Drainage projectsnumber 1960	5	2	1	2	1	12	1	1	
1950	1	1	1	1	1	1	1	1	
Total area in drainage projects 1	96,505	226,303	171,136	182,400	168,192	340,762	243,778	4,352	70,91
3 1950	96,205	220,288	171,136	182,400	168,192	340,301	243,778	4,352	70,91
Area not used for agriculture or not drained acres served 1960				1,400					1,16
Net area drained and used for agriculture acres served 1960	96,505	226,303	171,136	181,000	168,192	340,762	243,778	4,352	69,75
Drainage established before 1950, acres served 1960	96,205	225,843	171,136	181,000	168,192	340,301	243,778	4,352	69,75
Area added, 1950-1959	300	460				461			
Area served by two or more projects acres served 1960	4,818	750		200		20,071			
PROJECTS, 1960, BY TYPE OF ORGANIZATION									
Prains owned by one landowner number of projects						3			
acres served ²				!		6,300			
Cooperative or mutual drains	4	1		1		8			
acres served ² .,	5,118	750		200		14,232			
Legally organized public drainsnumber of projects	1	1	1	1	1	1	1	1	
acres served ²	96,205	226,303	171,136	181,000	168,192	340,301	243,778	4,352	69,75
PROJECTS, 1960, BY YEAR STARTED									
3 1950-1959 number of projects	3	1		1		6			
acres served ²	2,618	750		200		9,110			
Prior to 1950number of projects	2	1	1	1	1	6	1	1	
acres served ²	98,705	226,303	171,136	181,000	168,192	351,723	243,778	4,352	69,75
DRAINAGE OPERATIONS, 1950-1959 5									
Cost of drainage works and servicesprojects reporting	5	2	1	2	1	10	1		
dollars	36,718	180,442	276,192	42,057	30,074	135,548	103,705		73,70
New drainage works constructed, enlarged, or installed		2	1	1		4			
dollars		120,442	6,470	717		31,267			
Open ditchesprojects reporting		2		1		3			
length, miles		13.8		0.2		8.2			
Tile or covered drainsprojects reporting		2	1			1			
length, miles		2.5	1.0			1.0			
Levees or dikes,									
length, miles									
Pumpeprojects reporting									
number of pumpe									
Other (see text)		1							
Cost of maintenance, operation, repair, and									
administration,	5	1	1	1	1	7	1		
dollars	36,718	60,000	269,722	41,340	30,074	104,281	103,705		73,70

land served by two or more projects counted only once.
Acres served by two projects are included for each project. See text.
Includes projects taken over by another project prior to 1960. See text.

County Table 1. - DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

_												
	Item and Census year	Knox	Kosciusko	Lagrange	Lake	La Porte	Madison	Marion	Marshall	Miami		
	AREA											
1	Approximate land area	330,880	344,320	242,560	328,960	389,120	289,920	257,280	284,160	243,200		
2	Land in farms	302,364	302,391	213,985	191,081	305,954	246,700	105,941	261,353	213,876		
а	Drainage projectsnumber 1960	1	1	1	8	1	12	1	1	2		
4	1950	1	1	1	1	1	1	1	1	1		
5	Total area in drainage projects acres served 1960	196,380	305,421	181,813	158,057	203,504	226,944	85,891	249,421	121,212		
6	1950	196,380	305,421	181,813	158,057	203,184	226,944	71,251	247,501	107,512		
7	Area not used for agriculture or not drained acres served 1960	1,440	1,600	1,600	1,134	5,820		11,040		2,940		
8	Net area drained and used for agriculture acres served 1960	194,940	303,821	180,213	156,923	197,684	226,944	74,851	249,421	118,272		
9	Drainage established before 1950 acres served 1960	194,940	303,821	180,213	156,923	197,684	226,944	74,851	247,501	105,292		
10	Area added, 1950-1959 acres served 1960								1,920	12,980		
11	Area served by two or more projects acres served 1960				8,360		11,525			420		
	PROJECTS, 1960, BY TYPE OF ORGANIZATION											
12	Drains owned by one landowner number of projects											
18	acres served ²									•••		
14	Cooperative or mutual drainsnumber of projects				7		11			1		
15	acres served ²				8,360		11,525			520		
16	Legally organized public drains number of projects	1	1	1	1	1	1	1	1	1		
17	acres served ²	194,940	303,821	180,213	156,923	197,684	226,944	74,851	249,421	118,172		
	PROJECTS, 1960, BY YEAR STARTED											
16	1950-1959				6		11			1		
19	acres served ²				5,760		11,525			520		
20	Prior to 1950number of projects	1	1	1	2	1	1	1	1	1		
21	acres served ²	194,940	303,821	180,213	159,523	197,684	226,944	74,851	249,421	118,172		
	DRAINAGE OPERATIONS, 1950-1959 5											
22	Cost of drainage works and servicesprojects reporting	1	1	1	8	1	12	1	1	2		
23	dollars	440,719	296,911	130,695	161,465	44,309	96,934	6,121	268,785	343,041		
24	New drainage works constructed, enlarged, or installed		1	1	4	1	11		1	2		
25	dottars		8,054	130,695	75,187	43,309	49,812		83,729	142,688		
26	Open ditchesprojects reporting			1	4		10		1	2		
27	length, miles			31.7	11.3		18.2		38.2	16.0		
28	Tile or covered drainsprojects reporting		1	1	1	1	3			1		
29	length, miles		0.9	3.0	0.3	0.1	1.7			16.4		
30	Levees or dikes projects reporting		•••	•••						•••		
81	length, miles											
32	Pumpeprojects reporting											
33	number of pumps											
34	Other (see text)					1		•••				
35	Cost of maintenance, operation, repair, and administration	,	1		5	1	1	1	1	1		
36	administration	440,719	288,857		86,278	1,000	47,122	6,121	185,056	200,353		
		1				1						

¹Iand served by two or more projects counted only once.

²Acres served by two projects are included for each project. See text.

³Includes projects taken over by another project prior to 1960. See text.

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County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

_	Item and Census year	Montgomery	Morgan	Newton	Noble	Ohio	Owen	Parke	Perry	Pike
	near and contract year	man og omer y	ino gan		Nobic	GITZO	owen.	1 43 20	, 6113	
	AREA									
1	Approximate land Breaacres 1960	324,480	259,840	263,040	262,400	55,680	246,400	288,640	245,760	214,400
2	Land in farmsacres 1959	295,284	182,835	233,631	240,511	46,182	156,162	229,105	137,066	120,411
3	Drainage projectsnumber 1980	16	1	26	3	1	1	1	1	1
4	1950	1	1	1	1	1	1	1	1	1
5	Total area in drainage projects 1	142,897	41,344	239,624	188,704	1,229	4,608	15,616	768	122,178
6	1950	136,478	41,344	238,464	187,904	1,229	4,608	15,616	768	123,238
7	Area not used for agriculture or not drained acres served 1980			1,200						
8	Net area drained and used for agriculture acres served 1960	142,897	41,344	238,424	188,704	1,229	4,608	15,616	768	122,178
9	Dramage established before 1950 acres served 1960	137,838	41,344	238,424	187,904	1,229	4,608	15,616	768	122,178
10	Area added, 1950-1959 acres served 1960	5,059			800					
11	Area served by two or more projects acres served 1960	9,276		25,554	1,300					
	PROJECTS, 1960, BY TYPE OF ORGANIZATION									
12	Drains owned by one landowner number of projects	1	•••	5						
18	acres served ²	1,000		2,805						
14	Cooperative or mutual drainsnumber of projects	14		20	2					
15	acres served ²	13,895		26,529	2,100					
15	Legally organized public drainsnumber of projects	1	1	1	1	1	1	1	1	1
17	acres served ²	137,278	41,344	237,724	187,904	1,229	4,608	15,616	768	122,178
	PROJECTS, 1980, BY YEAR STARTED									
18	1950-1959	13		14	2					
19	acres served ² .	11,095		17,649	2,100					
20	Prior to 1980 number of projects	3	1	12	1	1	1	1	1	1
21	acres served ²	141,078	41,344	249,409	187,904	1,229	4,608	15,616	768	122,178
	DRAINAGE OPERATIONS, 1950-1959									
22	Cost of drainage works and servicesprojects reporting	14	1	18						
23	dollars	227,212	28,932	144,403	127,701					
24	New drainage works constructed, enlarged, or installedprojects reporting	9		9	3					
25	dollars	71,208		87,094	21,456					
26	Open ditchesprojects reporting	6		9	3					
27	length, miles	7.8		20.8	5.9					
28	Tile or covered drainsprojects reporting	4		1	1					
29	length, miles	5,2		0.1	2.0					
30	Levees or dikes									
31	length, miles									
32	Pumpeprojects reporting									
38	number of pumps									
84	Other (see text)projects reporting	1		5						
35	Cost of maintenance, operation, repair, and	g								
36	administrationprojects reporting dollars	156,004	28,932	11 57,309	106 2/5	***	•••			
25	dollars	120,004	20,932	57,309	106,245	•••			• • • •	• • • • • • • • • • • • • • • • • • • •

Land served by two or more projects counted only once.

Acres served by two projects are included for each project. See text.

Includes projects taken over by another project prior to 1960. See text.

County Table 1. –DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

	Item and Census year	Porter	Ровеу	Pulaski	Putnam	Randolph	Rush	St. Joseph	Scott	Shelby
	AREA									
1	Approximate land areascres 1980	272,000	264,960	277,120	312,320	292,480	261,760	298,880	123,520	261,760
2	Land in farmsacres 1959	206,571	230,799	252,659	264,434	271,672	255,010	206,408	83,480	234,689
9	Drainage projectsnumber 1960	1	2	1	1	1	1	4	1	1
4	1950	1	1	1	1	1	1	1	1	1
5	Total area in drainage projects 1	189,440	199,424	251,366	12,698	251,854	141,176	263,012	12,544	96,707
6	1950	189,440	199,424	251,366	12,698	249,728	137,856	263,012	12,544	92,800
7	Area not used for agriculture or not drained acres served 1960	3,080						7,280		
8	Net area drained and used for agriculture acres served 1960	186,360	199,424	251,366	12,698	251,854	141,176	255,732	12,544	96,707
9	Drainage established before 1950 acres served 1960	186,360	199,424	251,366	12,698	251,584	137,856	255,732	12,544	96,707
10	Ares added, 1950-1959 acres served 1960					270	3,320			
11	Area served by two or more projects acres served 1960		600					19,764		
	PROJECTS, 1980, BY TYPE OF ORGANIZATION									
12	Drains owned by one landowner number of projects									
18	acres served ²									
14	Cooperative or mutual drainsnumber of projects		1					3		
15	acres served ²		600					19,764		
18	Legally organized public drains number of projects	1	1	1	1	1	1	1	1	1
17	acres served ²	186,360	199,424	251,366	12,698	251,854	141,176	255,732	12,544	96,707
	PROJECTS, 1960, BY YEAR STARTED									
18	1950-1959 number of projects		1					2		
19	acres served ²		600					15,125		
20	Prior to 1950number of projects	1	1	1	1	1	1	2	1	1
21	acres served ²	186,360	199,424	251,366	12,698	251,854	141,176	260,371	12,544	96,707
	DRAINAGE OPERATIONS, 1950-1959 8									
22	Cost of drainage works and servicesprojects reporting	1	2	1		1	1	4	1	1
23	dollars	42,811	24,144	230,055		436,025	283,772	407,311	500	54,199
24	New drainage works constructed, enlarged, or installedprojects reporting	1		1		1	1	3		
25	dollars	18,742		39,996		73,364	97,343	140,935		
26	Open ditchesprojects reporting			1		1	1	3		
27	longth, miles			6.2		8.2	8.9	41.1		
28	Tile or covered drainsprojects reporting	1		1		1	1	1		
29	length, miles	2.6		2.9		7.7	9.2	13.0		
30	Levees or dikesprojects reporting									•••
91	length, miles									
32	Pumpeprojects roporting	• • •								
aa	number of pumps									
94	Other (see text)projects reporting									•••
35	Cost of maintenance, operation, repair, and administrationprojects reporting	1	2	1		1	1	3	1	1
36	dollars	24,069	24,144	190,059		362,661	186,429	266,376	500	54,199

land served by two or more projects counted only once.

Acres served by two projects are included for each project. See text.

Includes projects taken over by another project prior to 1960. See text.

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County Table 1. –DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959 [See text for comparability of 1960 and 1950 data]

	Item and Census year	Spencer	Starke	Steuben	Sullivan	Tippecanoe	Tipton	Union	Vanderburgh	Vermillion
	AREA									
1	Approximate land areaacres 1960	253,440	199,040	198,400	292,480	320,640	167,040	107,520	154,240	168,320
2	Land in farms	201,308	163,844	169,997	223,712	280,727	163,571	98,514	100,713	131,585
8	Drainage projectsnumber 1960	3	1	1	3	17	1	2	2	3
4	1950	1	1	1	1	1	1	1	1	1
8	Total area in drainage projects 1	83,040	190,065	142,336	39,456	155,415	167,040	4,341	64,476	7,296
6	1950	83,040	190,065	142,336	39,456	147,584	167,040	3,789	64,336	7,296
7	Area not used for agriculture or not drained acres served 1960					1,920	720		6,616	
8	Not area drained and used for agriculture acres served 1960	83,040	190,065	142,336	39,456	153,495	166,320	4,341	57,860	7,296
9	Drainage established before 1950 acres served 1960	83,040	190,065	142,336	39,456	149,214	166,320	3,789	57,860	7,296
10	Area added, 1950-1959 acres served 1960					4,281		552		
11	Area served by two or more projects acres served 1960				15,000	11,432				2,800
	PROJECTS, 1960, BY TYPE OF ORGANIZATION									
12	Drains owned by one landownernumber of projects									
18	acres served ²									
14	Cooperative or mutual drains,number of projects	2				16		1		2
15	acres served ²	11,648				20,263		552		2,800
16	Logally organized public drains,number of projects	1	1	1	3	1	1	1	2	
17	acres served ² ,.	71,392	190,065	142,336	54,456	145,664	166,320	3,789	57,860	7,296
	PROJECTS, 1960, BY YEAR STARTED									
18	1950-1959 number of projects					8		1		1
19	scres served ²	***				8,942		552		1,000
20	Prior to 1950number of projects	3	1	1	3	9	1	1	2	2
21	acres served 2	83,040	190,065	142,336	54,456	156,985	166,320	3,789	57,860	9,096
	DRAINAGE OPERATIONS, 1950-1959 8									
	Cost of drainage works and services	1	1	1	3	17	1	2	2	2
23		15,226	61,988	116,581	262,297	346,641	38,978	9,442	108,187	6,750
24	New drainage works constructed, enlarged, or installedprojects reporting		1			12		(4)	1	1
25	dollars		26,064			204,159		(4)	3,130	2,500
26	Open ditches projects reporting		1			12			1	1
27	length, miles		25.0			11.9			0.2	0.2
28	Tile or covered drainsprojects reporting		1			4		(4)	1	1
29	length, miles		1.0			4.1		(4)	0.1	0.1
30	Levees or dikesprojects reporting									1
31	length, miles									0.1
82	Pumpsprojects reporting					}	***			
38	number of pumps									
34	Other (see text)					4				1
35	Cost of maintenance, operation, repair, and		1	1	3	13	1	1	2	,
36	administration, projects reporting dollars	15,226	35,924	116,581	262,297	142,482	38,978	3,152	105,057	4,250
ot	dollars	15,220	22, 224	110,001	100,1207	147.1.402	20,270	3,172	107,057	7,230

¹Iand served by two or more projects counted only once.

Acres served by two projects are included for each project. See text.

³Includes projects taken over by another project prior to 1960. See text.

⁴Included in State total only.

County Table 1. - DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

Item and Census year	Vigo	Wabash	Warren	Warrick	Washing- ton	Wayne	Wells	White	Whitley
AREA									
Approximate land area	265,600	269,440	235,520	250,240	330,240	259,200	235,520	318,080	215,04
Land in farms	179,274	246,582	209,853	145,104	266,323	225,442	222,221	296,318	195,27
Drainage projectsnumber 1960	6	5	17	3	1	1	2	4	
1950	1	1	1	1	1	1	1	1	
Total area in drainage projects 1	35,862	172,928	79,240	143,104	12,544	23,885	206,029	264,464	206,25
1950	31,962	172,928	76,800	143,104	12,544	23,885	206,029	264,064	206,25
Area not used for agriculture or not drained acres served 1960	800						780		
Net area drained and used for agriculture scres served $1960\ldots$	35,062	172,928	79,240	143,104	12,544	23,885	205,249	264,464	206,25
Drainage established before 1950 acres served 1960	31,162	172,928	70,912	143,104	12,544	23,885	205,249	264,064	206,25
Area added, 1950-1959 acres served 1960	3,900		8,328					400	
Area served by two or more projects acres served 1960	2,800	2,390	4,378	1,520			400	1,800	
PROJECTS, 1960, BY TYPE OF ORGANIZATION									
Drains owned by one landowner number of projects	2							3	
acres served2	2,300							2,200	
Cooperative or mutual drainsnumber of projects	3	4	16	2			1		
acres served ²	4,400	2,390	12,706	1,520			400		
Legally organized public drainsnumber of projects	1	1	1	1	1	1	1	1	
acres served ²	31,162	172,928	70,912	143,104	12,544	23,885	205,249	264,064	206,25
PROJECTS, 1960, BY YEAR STARTED									
1950-1959number of projects	5	4	14	2			1	3	
acres served ²	6,700	2,390	10,756	1,520			400	2,200	
Prior to 1950number of projects	1	1	3	1	1	1	1	1	
acres served ²	31,162	172,928	72,862	143,104	12,544	23,885	205,249	264,064	206,25
DRAINAGE OPERATIONS, 1950-1959 3									
Cost of drainage works and servicesprojects reporting	5	5	14	3		1	2	4	
dollars	26,425	223,739	48,571	152,689		10,328	98,542	1,083,730	427,79
New drainage works constructed, enlarged, or installedprojects reporting	2	4	11				(4)	4	
dollars	5,250	7,876	34,861				(4)	115,786	
Open ditchesprojects reporting	2	3	9				(4)	4	
length, miles	1.7	2.2	7.9				(4)	13.3	
Tile or covered drainsprojects reporting		1	2					1	
length, miles		0.4	1.0					1.7	
Levees or dikes									
length, miles									
Pumpeprojects reporting									
number of pumps									
Other (see text)			5						
Cost of maintenance, operation, repair, and administrationprojects reporting	4	1	. 7	3		1	1	1	,
dullars	21,175	215,863	13,710	152,689		10,328	97,846	967,944	427,797

Lund served by two or more projects counted only once.

Acres served by two projects are included for each project. Ser it is.

Tincludes projects taken over by another project prior to 1960. S. tixt.

'Included in State total only.

State Table 1.–DRAINAGE PROJECTS–NUMBER, AREA, COST, AND WORKS, 1920 TO 1960

[See text for comparability of data]

[80	e text for comparability of d	nt n			
ltem.	1960 Census	1950 Census	1940 Census	1930 Census	1920 Census
AREA					
Approximate land area	35,860,480	35,868,800	35,831,040	35,575,040	35,575,04
Land in farms	33,830,950	34,264,639	34,148,673	34,019,332	33,474,89
Orainage projects,	249	86	13,180	NA.	N
Total area in drainage projects	6,884,409	6,734,863	6,164,344	6,137,649	5,224,47
Area not used for agriculture or not drained	13,070	NA.	NA.	NA.	n
Net area drained and used for agriculture	6,871,339	NA.	² 5,945,393	² 6,105,496	N
Dramage established 10 years or more before Census date	6,748,104	NA.	NA.	NA.	, n
Drainage established within 10 years of Census dateacres served	123,235	NA.	NA.	NA.	, n
Area served by two or more projectsacres served	190,819	NA.	1,380,587	1,259,995	681,26
PROJECTS BY TYPE OF ORGANIZATION					
rains owned by one landownernumber of projects	10	(3)	NA.	NA.	N.
acres served	11,428	(3)	53,786	21,557	12,79
Cooperative or mutual drainsnumber of projects	89	(3)			
scres served	125,657	(3)			
egally organized public drains	150	386	NA.	NA.	N.
acres served	6,926,485	36,734,863	6,110,558	6,116,092	5,211,68
PROJECTS BY YEAR STARTED					
tarted 10 years or more before Census date	185	· NA			
acres served			NA NA	NA SATE ORD	N.
tarted within 10 years of Consus date	6,988,202	NA.	6,092,679	5,517,032	42,134,52
acros served	75,368	NA NA	NA 71,665	NA 620,617	43,077,14:
actos served	17,500	IOL	71,665	620,617	13,077,14.
OPERATIONS, 10-YEAR PERIOD PRECEDING CENSUS DATE					
ost of drainage works and services	202	77	NA.	NA.	N.
dollars	21,032,299	13,302,757	NA.	NA.	N.
lew drainage works constructed, enlarged, or installed projects reporting	110	⁵ 35	NA.	NA.	N.
cost, dollars	5,726,914	52,143,433	NA.	NA.	N.
Open ditches projecte reporting	78	33	NA.	NA.	N.
length, miles	271.1	203	NA.	NA.	NJ
Tile or covered drains	60	23	N.A.	NA.	N.
length, miles,,,	282.8	165	N.A.	NA.	N.
Levees or dikesprojects reporting	6	4	NA.	NA.	N.
length, miles,	6.5	35	NA.	NA	N.
Pumps	2	NA.	NA.	NA.	, Nu
number of pumpe	2	NA.	NA.	NA.	N.
Other (see text)	19	NA	NA.	NA.	N.
cost of maintenance, operation, repair, and administration	138	777	NA NA	na na	N.
dollars	15,305,385	11,159,324	. NA	N.A.	N
STATUS ON CENSUS DATE	ĺ				
apital investmentdollars	NA.	NA.	75,374,497	77,478,893	49,627,30
hysical works: Open ditcheslength, miles	NA.	NA ·	5,189.7	4,800.0	3,998.0
Tile drainslength, miles	NA	NA I	12,873.2	13,382.4	10,384.
Leves and dikeslength, miles	NA.	AM	456.8	113.4	45.2
Pumping unitsnumber of units	NA.	NA j	18	21	N.F
				1	

NA Not available.

In 1940 each county drain was counted as a separate project. See text.

Rio fully comparable. See text.

All projects in 1950 included with county drains. See text.

1920 figure ackulde 12,811 acres for which date of organization was not reported.

Cost of new works for lands not previously drained.

State Table 2.-DRAINAGE

			ed and used lture, 1960	Are	a by period drains	age was establish	ed
Size of project (Based on area of agricultural land in project)	Number of projects	Total	Served by two	Befor	re 1950	Area added 1950-1959	
		(acres)	or more projects (acres)	Projects reporting	Acres	Projects reporting	Acres
All projects.	249	7,063,570	383,050	203	6,939,308	77	124,262
500 to 999 scres	61	40,868	8,224	33	21,808	31	19,060
1,000 to 1,999 acres	ภ	72,690	12,500	38	52,784	16	19,906
2,000 to 4,999 acres	36	115,231	12,652	31	97,849	7	17,38
5,000 to 9,999 acres	19	140,346	2,500	19	139,746	1	600
10,000 to 19,999 acres	30	429,493	11,749	30	427,883	1	1,610
20,000 to 49,999 acres	16	532,875	3,960	16	532,875]	
50,000 to 99,999 acres	13	932,852	268,959	13	928,154	4	4,698
100,000 or more acres	23	4,799,215	62,506	23	4,738,209	17	61,000

State Table 3.-DRAINAGE PROJECTS, 1960,

		Area drained for agricul		Area by period drainage was established						
Type of organization	Number of projects	Total	Served by two	Before	1950	Area added 1950-1				
	,	(acres)	or more projects (acres)	Projects reporting	Acres	Projects reporting	Acres			
All projects.	249	7,063,570	383,050	203	6,939,308	77	124,26			
Drains owned by one landowner	10	11,428	2,935	3	4,215	8	7,21			
Cooperative or mutual drains.	89	125,657	29,441	50	76,522	46	49,13			
Legally organized public drains	150	6,926,485	350,674	150	6,858,571	23	67,91			

State Table 4.-DRAINAGE PROJECTS, 1960,

		Area draine for agricul		Are	a by period drain	age was establish	ed	
Year of organization	Number of projects		Served by two	Befor	e 1950	Area added 1950-1959		
	projects	Total (acres)	or more projects (acres)	Projects reporting	Projects Acres		Acres	
All projects	249	7,063,570	383,050	203	6,939,308	77	124,2	
1950-1959	64	75,368	20,751	18	19,724	52	55,64	
Prior to 1950	185	6,988,202	362,299	185	6,919,584	25	68,6	

PROJECTS, 1960, BY SIZE

		0-1959	nstalled, 195	nlarged, or i	construc t ed, e	New works			1950-1959	and services,	rainage works	Cost of d
Other,	mpa mpa	Pun	nd dikes	Levees a	ered drains	Tile or cov	itches	Open d	works	For new	tal	To
	Number	Projects reporting	Length (miles)	Frojects reporting	Length (miles)	Projects reporting	Length (miles)	Frojects reporting	Dollars	Projects reporting	Dollars	Projects reporting
19	2	2	6.5	6	282.8	60	271,1	78	5,726,914	110	21,032,299	202
	1	1	1.5	1	51.5	25	22.0	20	241,123	38	255,517	50
			0.6	1	26.6	8	27.6	18	120,577	22	186,667	40
			0.1	1	7.7	4	26.0	11	129,947	13	518,510	31
					0.8	1	10.3	2	30,279	3	161,245	14
			4.3	3			7.2	4	237,336	4	2,111,382	20
							20.4	2	122,532	2	1,748,754	11
	1	1			4.2	3	39.8	4	1,160,903	7	3,735,017	13
:					192.0	19	117.8	17	3,684,217	21	12,315,207	23
	Other, projects reporting	Number projects reporting	Fumps Other, Projects reporting Number reporting 2 2 2 16 1 1 1	nd dikes Fumps Other, Projects reporting Number reporting Number reporting 15 16 17 17 18 18 18 18 18 18	Levees and dikes Fumps Other, Frojects Reporting Number Projects Number Projects	cred drains Levees and dikes Fumps Other, projects reporting Length (miles) Frojects (miles) Length (miles) Projects reporting Number reporting 282.8 6 6.9 2 2 16 51.5 1 1.5 1 1 1 26.6 1 0.6 7.7 1 0.1 0.8 3 4.3 4.2 1 1 1 1	Projects reporting Length (siles) Frojects reporting Length (miles) Projects reporting Number Projects reporting 60 282.8 6 6.5 2 2 15 25 51.5 1 1.5 1 1 1 8 26.6 1 0.6 1 0.8 3 4.3 3 4.2 1 1 1 ;	Title or covered drains Levees and dikes Fump Other, Country	Open ditches Tile or covered drains Levees and dikes Fumps Other, projects reporting Frojects reporting Length (miles) Projects reporting Length (miles) Frojects reporting Number reporting 78 271.1 60 282.8 6 6.5 2 2 16 20 22.0 25 51.5 1 1.5 1 1 1 1 11 26.0 4 7.7 1 0.1 <t< th=""><th>works Open ditches Tile or covered drains Levees and dikes Fumps Other, projects reporting Dollars Frojects reporting Length (miles) Frojects reporting Length (miles) Frojects reporting Number reporting 5,726,914 78 271.1 60 282.8 6 6.5 2 2 16 241,123 20 22.0 25 51.5 1 1.5 1 1 1 1 120,977 18 27.6 8 26.6 1 0.6 <t< th=""><th> For new works Open ditches Tile or covered drains Levees and dikes Fump Other, </th><th> For new works</th></t<></th></t<>	works Open ditches Tile or covered drains Levees and dikes Fumps Other, projects reporting Dollars Frojects reporting Length (miles) Frojects reporting Length (miles) Frojects reporting Number reporting 5,726,914 78 271.1 60 282.8 6 6.5 2 2 16 241,123 20 22.0 25 51.5 1 1.5 1 1 1 1 120,977 18 27.6 8 26.6 1 0.6 <t< th=""><th> For new works Open ditches Tile or covered drains Levees and dikes Fump Other, </th><th> For new works</th></t<>	For new works Open ditches Tile or covered drains Levees and dikes Fump Other,	For new works

BY TYPE OF ORGANIZATION

Cost of d	rainage works	and services,	1950-1959			New works	constructed, e	nlarged, or i	nstalled, 195	0-1959			
To	tal	For new	works	Open d	itches	Tile or cove	red drains	Levees and dikes		Fumps		Other,	
rojects	Dollars	Projects reporting	Dollars	Frojects reporting	Length (miles)	Projects reporting	Length (miles)	Frojects reporting	Length (miles)	Projects reporting	Number	projects reporting	
202	21,032,299	110	5,726,914	78	271.1	60	282.8	6	6.5	2	2	19	
10	78,749	10	75,749	4	6.1	7	20.0	1	1.5	1	1	1	
67	425,094	61	410,626	44	66.1	29	65.1	2	0.7			10	
125	20,528,456	39	5,240,539	30	198.9	24	197.7	3	4.3	1	1	8	

BY YEAR OF ORGANIZATION

Cost of d	irainage works	and services,	1950-1959			New works	constructed, en	nlarged, or i	nstalled, 195	0-1959		
To	otal	For new	works	Open d	itches	Tile or cov	ered drains	Levees a	nd dikes	Pur	mps	Other,
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Frojects reporting	Length (miles)	Projects reporting	Number	projects reporting
202	21,032,299	110	5,726,914	78	271.1	60	282.8	6	6.5	2	2	19
64	442,370	64	437,340	45	66.2	32	75.3	1	0.1			9
138	20,589,929	46	5,289,574	33	204.9	28	207.5	5	6.4	2	2	10

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

Item and Census year	The State	Adair	Adama	Allamakee	Appanoose	Audubon	Benton	Black Hawk	Boone
AREA									
Approximate land areaacres 1960	35,860,480	364,160	272,640	408,960	334,720	286,720	459,520	362,880	366,72
Land in farmsacres 1959	33,830,950	353,983	260,160	357,225	303,805	277,950	441,685	329,100	349,56
Drainage projectsnumber 1960	249	1	1	2	1	5	1	4	ĺ .
1950	86	1	1	1	1	1	1	1	
Total area in drainage projects 1	6,884,409	3,328	13,751	9,355	14,336	21,826	410	12,647	147,47
1950	6,734,863	3,328	13,751	9,355	14,336	15,622	410	10,322	144,69
Area not used for agriculture or not drained acres served 1960	13,070								2,24
Not area drained and used for agriculture acres served 1960	6,871,339	3,328	13,751	9,355	14,336	21,826	410	12,647	145,23
Drainage established before 1950 acres served 1960	6,748,104	3,328	13,751	9,355	14,336	21,186	410	10,322	142,45
Ares added, 1950-1959 acres served 1960	123,235					640		2,325	2,78
Area served by two or more projects acres served 1960	190,819								
PROJECTS, 1980, BY TYPE OF ORGANIZATION									
Drains owned by one landowner number of projects	10					1			
acres served ²	11,428					640	,		· · · ·
Cooperative or mutual drainsnumber of projects	89					3			
acres served ²	125,657					5,564			506
Legally organized public drainsnumber of projects	150	1	1	2	1	1	1		1
acres served ²	6,926,485	3,328	13,751	9,355	14,336	15,622	410	10,322	144,731
PROJECTS, 1960, BY YEAR STARTED									
1950-1959 number of projects	64					1		3	١,
acres served ²	75,368					640		-	50€
Prior to 1950 number of projects	185	1	1	2	1	4	1	1	1
acres served ²	6,988,202	3,328	13,751	9,355	14,336	21,186	410	10,322	144,731
DRAINAGE OPERATIONS, 1950-1959			,						
Cost of dramage works and servicesprojects reporting	202	1		1		2		4	2
dollars	21,032,299	3,385		17,499		8,412		28,427	130,875
New drainage works constructed, enlarged, or installedprojects reporting	110			1		2		3	2
dollars	5,726,914			14,918		6,434		25,544	46,207
Open ditchesprojects reporting	78			1		2		3	
length, miles	271.1			7.0		1.5		. 3.8	
Tile or novered drainsprojects reporting	60							2	2
length, miles	282.8							3.8	6.7
Levees or dikes	6								
length, miles	6.5								
Pumpsprojects reporting	2								
number of pumps	2								
Other (see text)	19					1			1
Cost of maintenance, operation, repair, and administration	1.06	1		,		,		,	1
dollars	15,305,385	3,385		2,581		1,978		2,883	84,668
	Approximate land area	Approximate land area	Approximate land area	Approximate land area	Approximate land area	Approximate land steel	Approximate land steal	Approximate land area	Approximate land stea

Land served by two or more projects counted only once.

Acres served by two projects are included for each project. See text.

Includes projects taken over by another project prior to 1960. See text.

County Table 1. - DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959 [See text for comparability of 1960 and 1950 data]

Item and Census year Bremer Buchanan Buena Viata Butler Calhoun Carroll Cacc Cedar Cerro Gordo AREA 280,960 364,160 366,720 372.480 366.080 367.360 357.760 374,400 368,640 264,952 350,406 358,595 356,218 355,559 364,756 352,107 349,904 340,504 1 3 1 2 4 1 8 1 1 1 1 1 1 1950 5,457 237,450 2,719 285,471 8,678 117,962 41,205 10,354 132,771 8,078 3,277 237,450 819 285,471 117,962 26,705 10,354 124,974 Area not used for agriculture or not drained scres served 1960 . . . 1.080 1,200 1,760 5,457 237,450 2,719 285,471 116,882 40,005 10,354 Net area drained and used for agriculture acres served 1960 . . . 8.678 131.011 8,078 3,277 237,450 819 285,471 116,882 40,005 10,354 123,214 Dramage established before 1950..... acres served 1960... Ares added, 1950-1959 acres served 1960 ... 600 2,180 1,900 7,797 10 11 Area served by two or more projects...... acres served 1960... 520 73,143 360 PROJECTS, 1960, BY TYPE OF ORGANIZATION 12 Drains owned by one landowner number of projects 1 1,100 13 acres served2... 2 2 6 14 Cooperative or mutual drains number of projects acres served2.. 2,180 520 1,900 14,000 6,016 15 2 1 Legally organized public drains number of projects . . . 2 ٦ 1 1 1 17 acres served 8,678 3,277 237,450 819 285,471 190,025 26,005 10,354 124,255 PROJECTS, 1960, BY YEAR STARTED 1 2 6 18 1950-1959 number of projects... 2,180 520 1,900 5,912 acres served2... 19 ٦ 20 Prior to 1950...... number of projects... 1 2 1 ٦ 1 2 4 2 3,277 285,471 190.025 8,678 237,450 819 40,005 10.354 125,459 21 DRAINAGE OPERATIONS, 1950-1959 22 Cost of drainage works and servicesprojects reporting... 1 4 2 2 1 2 1 7 23 dollars... 6,533 5,687 731,628 5.095 742,312 648.064 7,866 163,185 1 2 2 7 25 dollars... 4,361 4,160 246,633 5,095 89,572 26 Open ditches projects reporting 4.3 2.6 5.2 1.2 27 length, miles . . . 1 28 Tile or covered drains......projects reporting... 1 length, miles . . . 0.7 8.1 29 0.8 38.5 30 31 length, miles 32 Pumpsprojects reporting . . . 83 1 24 24 Cost of maintenance, operation, repair, and 1 2 1 1 2 1 1 . . . administration.....projects reporting... 2,172 1.527 484,995 742,312 648,064 7,866 73,613 dollars . . . 36

land served by two or more projects counted only once.

Acres served by two projects are included for each project. See text.

Includes projects taken over by another project prior to 1960. See text.

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

Item and Census year	Chickassw	Cley	Clinton	Crawford	Dallas	Davis	Decatur	Delaware	Des Moines
AREA		-							
1 Approximate land area	323,200	365,440	444,800	458,240	382,080	325,760	339,200	366,720	261,760
2 Land in farmsacres 1959	306,559	343,215	418,064	439,662	354,014	294,228	301,269	351,162	235,442
3 Drainage projectsnumber 1960	1	2	4	1	1	2	1	1	3
4 1950		1	1	1	1	1	1	1	1
5 Total area in drainage projects 1	347	139,535	86,220	40,632	91,234	32,131	19,001	1,575	35,041
6 1950		132,987	82,176	40,632	90,588	32,131	19,001	1,575	32,768
7 Area not used for agriculture or not drained acres served 1960					1,280				
8 Net area drained and used for agriculture acres served 1960	347	139,535	86,220	40,632	89,954	32,131	19,001	1,575	35,041
Drainage established before 1950 acres served 1960		132,987	82,176	40,632	89,308	32,131	19,001	1,575	35,041
Area added, 1950-1959 acres served 1960	347	6,548	4,044		646				
Area served by two or more projects acres served 1960						• • • •			
PROJECTS, 1960, BY TYPE OF ORGANIZATION									
2 Drains owned by one landowner number of projects									
3 acres served ²									
4 Cooperative or mutual drains	1	1	3					1	
5 acres served .	347	660	4,044					1,575	
6 Logally organized public drainsnumber of projects		1	1	1	1	2	1		3
7 acres served ²		138,875	82,176	40,632	89,954	32,131	19,001		35,041
			,	,	,	,	27,002	• • • • • • • • • • • • • • • • • • • •	33,041
PROJECTS, 1960, BY YEAR STARTED									
8 1950-1959number of projects	1	1	3						
9 acres served ²	347	660	4,044						
0 Prior to 1950number of projects		1	1	1	1	2	1	1	3
acres served ²		138,875	82,176	40,632	89,954	32,131	19,001	1,575	35,041
DRAINAGE OPERATIONS, 1950-1959 6									
2 Cost of drainage works and servicesprojects reporting	1	2	4	1	1	2			3
dollars	5,300	215,317	259,838	83,083	37,724	8,256			688,465
4 New drainage works constructed, enlarged, or installedprojects reporting	1	2	4		1				
dollars	5,300	168,485	84,618		29,069				
6 Open ditchesprojects reporting		2	3						
length, miles		5.2	11.1						
Tile or covered drains,	1	1	2		1				
19 length, miles	1.9	15.6	0.9		3.7				
0 Levees or dikesprojects reporting									
length, mites									
Pumpeprojects reporting									
number of pumps									
4 Other (see text)		***			1				
5 Cost of maintenance, operation, repair, and administration		1	1	1	1	2			3
66 dollars		46,832	175,220	83,083	8,655	8,256			_
wilas		40,002	USase	00,000	0,023	0,226			688,465

Land served by two or more projects counted only once.

Acres served by two projects are included for each project. See text.

Includes projects taken over by another project prior to 1960. See text.

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County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

Rem and Census year Dickinson Dubuque Emmet Fayette Floyd Franklin Fremont Greene Grundy													
Item and Consus year	Dickinson	Dubuque	Emmet	Fayette	Floyd	Franklin	Fremont	Greene	Grundy				
AREA													
Approximate land areaacres 1960	240,640	389,120	252,800	465,920	321,920	375,040	334,720	364,160	320,64				
Land in farmsacres 1959	237,704	343,185	240,384	447,708	304,207	363,684	311,881	354,548	319,59				
Draunage projectsnumber 1960	1	1	1	3	3	17	11	3	1				
1950	1	1	1	1	1	1	1	1					
Total area in drainage projects 1	127,379	1,475	185,699	4,683	41,808	166,236	111,446	156,389	22,47				
1950	126,979	1,475	184,650	3,113	39,538	159,517	111,446	153,139	10,74				
Area not used for agriculture or not drained acres served 1960	•••			•••				560					
Net area drained and used for agriculture acres served 1960	127,379	1,475	185,699	4,683	41,808	166,236	111,446	155,829	22,47				
Drainage established before 1950 acres served 1960	126,979	1,475	184,650	3,113	39,538	160,207	111,446	152,579	11,28				
Area added, 1950-1959 acres served 1960	400	•••	1,049	1,570	2,270	6,029		3,250	11,19				
Area served by two or more projects acres served 1960	•••	•••	•••	• • •	• • •	516	37,066						
PROJECTS, 1960, BY TYPE OF ORGANIZATION													
Drains owned by one landowner number of projects								1					
acres served ²								690	2,09				
Cooperative or mutual drainsnumber of projects				2	2	3	4		10				
acres served ²				1,570	2,270	2,958	3,890		11,66				
Legally organized public drainsnumber of projects	1	1	1	1	1	14	7	2					
acres served ²	127,379	1,475	185,699	3,113	39,538	163,794	146,034	155,139	8,71				
PROJECTS, 1980, BY YEAR STARTED	·												
1950-1959 number of projects				2	2	2	4	1	10				
acres served ²				1,570	2,270	2,268	3,890	690	10,49				
Prior to 1950number of projects	1	1	1	1	1	15	7	2					
acres served ²	127,379	1,475	185,699	3,113	39,538	164,484	146,034	155,139	11,98				
DRAINAGE OPERATIONS, 1950-1959													
Cost of drainage works and services	1	1	1	3	3	17	10	3	13				
dollars	106,099	5,000	208,655	3,737	58,334	355,749	670,417	576,455	62,108				
New drainage works constructed, enlarged, or installedprojects reporting			_										
	1		1	2	2	3	5	2	12				
Open ditchesprojects reporting	15,000	• • •	10,083	2,652	9,005	97,570	50,787	137,829	61,80				
	•••		1	2	2	1	5	1	4				
length, miles Tile or covered drains			1.5	1.5	1.6	0.2	26.3	1.8	2.9				
	1.5	***	3.7	•••		3	_	2	-				
length, miles Levees or dikes	1.5		3.7		•••	13.1	0.1	13.1	13.2				
length, miles					***			• • •					
Pumps								***					
number of pumpe							•••		•••				
Other (see text)													
Cost of maintenance, operation, repair, and		•••					1		,				
administrationprojects reporting	1	1	1	1	1	15	6	2	2				
eraflob	91,099	5,000	198,572	1,085	49,329	258,179	619,630	438,626	301				

¹land served by two or more projects counted only once.

²Acres served by two projects are included for each project. See text.

³Includes projects taken over by another project prior to 1960. See text.

County Table 1. – DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

_										
	Item and Consus year	Guthrie	Hamilton	Hancock	Hardin	Harrison	Howard	Humboldt	Iowa	Jackson
	AREA									
1	Approximate land area	381,440	369,280	364,800	367,360	444,800	301,440	278,400	373,760	412,160
2	Land in farmsacres 1959	347,101	363,877	352,728	352,136	414,419	292,276	277,040	356,426	368,918
8	Drainage projectsnumber 1960	1	3	3	1	7	2	2	3	1
4	1950	1	1	1	1	1	1	1	1	1
5	Total area in drainage projects 1	15,104	265,793	312,559	162,388	142,579	7,901	204,220	21,459	5,018
6	1950	15,104	261,348	306,318	150,032	139,379	7,737	203,290	19,169	8,448
7	Area not used for agriculture or not drained acres served 1960		500					850	1,200	
6	Net area drained and used for agriculture acres served 1960	15,104	265,293	312,559	162,388	142,579	7,901	203,370	20,259	5,018
9	Drainage established before 1950 acres served 1960	15,104	260,848	306,318	152, 632	139,379	7,737	203,290	18,649	5,018
10	Area added, 1950-1959 acres served 1960		4,445	6,241	9,756	3,200	164	80	1,610	
11	Area served by two or more projects acres served 1960		2,660	700		1,200		500		
	PROJECTS, 1980, BY TYPE OF ORGANIZATION									
12	Drains owned by one landowner number of projects									
13	acros served ²									
14	Cooperative or mutual drainsnumber of projects		2	2		1	1	1	2	
15	acros served ²		2,660	1,278		1,200	164	500	1,863	
16	Legally organized public drainsnumber of projects	1	1	1	1	. 6	1	1	1	1
17	acres served ²	15,104	265,293	311,981	162,388	142,579	7,737	203,370	18,396	5,018
	PROJECTS, 1960, BY YEAR STARTED									
16	1950-1959			1		1	1			
19	acres served ²			700		1,200	164		•••	
20	Prior to 1950	1	3	2	1	1,200	104			
21	acres served ²	15,104	267,953	312,559	162,388	142,579	7,737	203,870	20,259	5,018
		,	24.,7.20	311,333	202,300	2-1.,575	,,,,,	205,070	20,237	5,010
22	DRAINAGE OPERATIONS, 1950-1959			_			_			
23	Cost of drainage works and services	1	2	1	1	7	1	1	2	1
24	New drainage works constructed, enlarged,	14,547	587,419	767,695	271,012	1,720,901	4,798	441,971	66,337	17,892
	or installed		2	1	1	3		1	1	
25	dollars		216,892	302,023	144,201	1,023,454		54,466	62,302	
26	Open ditches		1	1	1	2		1	1	
27	length, miles		0,9	16.2	7.3	10.5		1.0	1.7	
28	Tile or covered drainsprojects reporting		1	1	1			1		
29	length, miles		26,1	13.8	19.5			3.4		
30	Levees or dikes								1	
31	length, miles								1.5	
82	Pumpsprojects reporting					1				
88	number of pumps					1				
34	Other (see text)projects reporting		1	1		• • • • • • • • • • • • • • • • • • • •			1	
85	Cost of maintenance, operation, repair, and administration	1	2	1	1	7	1	1	2	1
86	dollars	14,547	370,527	465,672	126,811	697,447	4,798	387,505	4,035	17,892
		L						,		,

Land served by two or more projects counted only once.

Acres served by two projects are included for each project. See text.

Includes projects taken over by another project price 160. See text.

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County Table 1. - DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

										
	Item and Census year	Jasper	Jefferson	Johnson	Jones	Kossuth	Lee	Linn	Louisa	Madison
	AREA				-					
1	Approximate land areascres 1960	471,040	279,040	394,880	374,400	626,560	334,080	456,320	257,920	361,600
2	Land in farmsacres 1959	442,029	255,595	354,829	351,133	612,854	294,451	405,781	235,354	343,784
3	Dramage projectsnumber 1960	2	1	1	1	8	3	1,	8	1
4	1950	1	1	1	1	1	1	1	1	1
5	Total area in drainage projects	55,992	9,339	13,824	1,311	476,591	26,180	4,864	53,320	1,040
١	1950	66,816	9,339	13,824	1,311	475,136	13,824	4,864	52,330	1,040
7	Area not used for agriculture or not drained acres served 1960									
		55,992	9,339	13,824	1,311	476,591	26,180	4,864	53,320	1,040
	Net area drained and used for agriculture acres served 1960	55,992	9,339	13,824	1,311	474,816	26,180	4,864	51,970	1,040
9	Drainage established before 1950 acres served 1960									
10	Area added, 1950-1959			• • • • • • • • • • • • • • • • • • • •		1,775		***	1,350	***
11	Area served by two or more projects acres served 1960	***	•••			5,342	535	***	***	***
	PROJECTS, 1960, BY TYPE OF ORGANIZATION									
12	Drauns owned by one landowner number of projects					1	1			
13	acres served ²					3,480	535			
14	Cooperative or mutual drainsnumber of projects	1				5		•••)	1	
15	acres served ²	3,000				4,917			1,350	
16	Legally organized public drainsnumber of projects	1	1	1	1	2	2	1	7	1
17	acres served ²	52,992	9,339	13,824	1,311	473,536	26,180	4,864	51,970	1,040
	PROJECTS, 1960, BY YEAR STARTED									
18	1950-1959 number of projects					3			1	
19	acres served ²					2,887			1,350	
	Prior to 1950 number of projects	2	1	1	1	. 5	3	1	7	1
21	acres served ²	55,992	9,339	13,824	1,311	479,046	26,715	4,864	51,970	1,040
	DRAINAGE OPERATIONS, 1950-1959 3									
90	Cost of drainage works and servicesprojects reporting	1			1	7	2	1	7	
23	dollars	6,098			1,489	605,138	243,800	2,795	385,637	
	New drainage works constructed, enlarged,	,,,,,			-,	,	,	,,,,,,		
24	or installed					5	2		2	
25	dollars					49,657	85,500		102,950	
26	Open ditchesprojects reporting					3	2		2	
27	length, miles					2.9	5.0		3.5	
28	Tile or covered drainsprojects reporting					4				
29	length, miles					5.6				
30	Levees or dikesprojects reporting						2		1	
31	length, miles						1.8		2.5	
32	Pumps						1			
33	number of pumps						1			
34						1			1	
	Other (see text)			•••				1	-	
35	Cost of maintenance, operation, repair, and administrationprojects reporting	1		***	1	4	1	1	6	
36	dollars	6,098			1,489	555,481	158,300	2,795	282,687	
		l								

land served by two or more projects counted only once. Acres served by two projects are included for each project. See text. Includes projects taken over by another project prior to 1960. See text.

County Table 1. –DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959 [See text for comparability of 1980 and 1980 data]

-	[See texts for comparability of 1900 and 1950 data]													
	Item and Census year	Mahaska	Marion	Marahall	Mills	Mitchell	Monoma	Mont- gomery	Musca- tine	O'Brien				
	AREA													
1	Approximate land areaacres 1960	366,080	363,520	367,360	285,440	298,880	446,080	270,080	280,960	368,000				
2	Land in farms	354,292	334,963	353,779	265,606	283,982	418,442	266,481	257,629	357,178				
3	Drainage projectsnumber 1960	3	2	2	13	2	4	2	2	1				
4	1950	1	1	1	1	1	1	1	1	1				
5	Total area in drainage projects	37,519	21,966	20,480	75,040	12,579	155,566	25,225	31,523	20,019				
6	1950	37,519	22,300	20,480	74,411	12,579	155,566	23,405	31,523	20,019				
7	Area not used for agriculture or not drained acres served 1960							·						
6	Net area drained and used for agriculture acres served 1960	37,519	21,966	20,480	75,040	12,579	155,566	25,225	31,523	20,019				
9	Drainage established before 1950 acres served 1960	37,519	21,966	20,480	74,411	12,579	155,566	25,225	31,523	20,019				
10	Area added, 1950-1959 acres served 1960,				629					20,019				
11	Area served by two or more projects acres served 1960				6,574		45,364							
				• • • • • • • • • • • • • • • • • • • •	0,514		45,504		•••	•••				
	PROJECTS, 1960, BY TYPE OF ORGANIZATION													
12	Drains owned by one landowner number of projects													
13	acres served ²													
14	Cooperative or mutual drainsnumber of projects	2	1		7			1						
15	acres served ² ,.	2,120	600		8,483			1,820						
16	Legally organized public drainsnumber of projects	1	1	2	6	2	4	1	2	1				
17	acres served ²	35,399	21,366	20,480	73,131	12,579	200,930	23,405	31,523	20,019				
	PROJECTS, 1960, BY YEAR STARTED													
18	1950-1959 number of projects				4									
19	acres served ²				5,403									
20	Prior to 1950number of projects	3	2	2	9	2	4	2	2	1				
21	acres served ²	37,519	21,966	20,480	76,211	12,579	200,930	25,225	31,523	20,019				
	ORAINAGE OPERATIONS, 1950-1959 5													
22	Cost of drainage works and services projects reporting	1		2	13	2	4		2	1				
23	dollars	13,867		585	506,986	1,269	2,957,767		203,157	9,481				
24	New drainage works constructed, enlarged,				,	2,207	2,757,7107		200,201	,,401				
	or installedprojects reporting				6		1							
25	dollars				35,502		1,184,818							
26	Open ditchesprojects reporting			•••	6		1							
27	length, miles				16.3		20.0							
26	Tile or covered drainsprojects reporting													
29	length, miles													
30	Levees or dikesprojects reporting				2									
31	longth, miles				0.7									
32	Pumpeprojects reporting													
33	number of pumps													
34	Other (see text)													
35	Cost of maintenance, operation, repair, and administrationprojects reporting	1		2	11	2	4		2	1				
36	dollars	13,867		585	471,484	1,269	1,772,949		203,157	9,481				
									,	.,				

I hand served by two or more projects counted only once.
Acres served by two projects are included for each project. See text.
Includes projects taken over by enother project prior to 1960. See text.

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

Item and Census year	Osceola	Page	Palo Alto	Plymouth	Pocahontas	Polk	Pottawat- tamie	Poweshiek	Ringgold
AREA								,	
1 Approximate land area	254,080	342,400	359,040	552,320	371,200	380,160	616,960	376,960	344,320
2 Land in farmsacres 1959	251,279	331,593	353,597	535,809	358,421	297,321	568,626	364,398	331,318
3 Drainage projectsnumber 1960	2	3	6	1	3	1		3	,
4 1950	1	1	1	1	1	1	1	1	
5 Total area in drainage projects 1	83,871	49,152	253,715	6,502	314,220	62,796	102,760	16,608	16,04
6 1950	83,680	49,152	236,593	6,502	306,460	62,796	102,440	17,749	16,04
7 Area not used for agriculture or not drained , acres served 1960						1,760			
6 Net area drained and used for agriculture acres served 1960	83,871	49,152	253,715	6,502	314,220	61,036	102,760	16,608	16,04
9 Drainage established before 1950, acres served 1960	83,339	49,152	236,593	6,502	309,265	61,036	102,440	16,608	16,04
10 Area added, 1950-1959 acres served 1960	532		17,122		4,955		320		
Area served by two or more projects acres served 1960	2,035		4,470		900		6,760		
PROJECTS, 1960, BY TYPE OF ORGANIZATION									
12 Drains owned by one landowner number of projects									
13 acres served ²									
14 Cooperative or mutual drainsnumber of projects	1		5		2			2 .	
15 acres served ²	2,035		10,830		1,300			9,749	
16 Legally organized public drains number of projects	1	3	1	1	1	1	5	1	
17 acres served ²	83,871	49,152	247,355	6,502	313,820	61,036	109,520	6,859	16,043
PROJECTS, 1960, BY YEAR STARTED									
18 1950-1959 number of projects	1		5						
acres served ²	2,035		10,830						
20 Prior to 1950number of projects	1	3	1	1	3	1	5	3	1
21 acres served ²	83,871	49,152	247,355	6,502	315,120	61,000	109,520	16,608	16,043
DRAINAGE OPERATIONS, 1950-1959 8									
22 Cost of drainage works and servicesprojects reporting	2	3	6	1	1	1	5	1	
23 dollars	42,118	247,496	557,270	5,256	1,317,738	63,226	399,170	30	
New drainage works constructed, enlarged, or installedprojects reporting	2	2	6		1		2		
25 dollars	8,323	123,461	239,094		400,012		9,551		
26 Open ditches	1	2	4		1		1		•••
27 length, miles	3.0	16.3	24.4		27.9		4.7		
28 Tile or covered drainsprojects reporting	1		3		1		1		•••
29 length, miles	0.4		11.5		16.1		0.7		
30 Levees or dikesprojects reporting									
31 length, miles									
32 Pumpsprojects reporting	•••								
33 number of pumps		1						1	
34 Other (see text)			1 1						
35 Cost of maintenance, operation, repair, and							1		•••
administrationprojects reporting	1	3	1	1	1	1	5	1	
36 dollars	33,795	124,035	318,176	5,256	917,726	63,226	389,619	30	

land served by two or more projects counted only once.

Acres served by two projects are included for each project. See text.

Includes projects taken over by another project prior to 1960. See text.

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

		e text for comparab	inty or 1960 and 1	- Contract					
Item and Census year	Sac	Scott	Shelby	Story	Tama	Taylor	Van Buren	Wapello	Warren
AREA					_				
1 Approximate land areaacres 1960	369,920	289,920	375,680	363,520	460,800	337,920	311,680	279,680	366,080
2 Land in farms	358,707	258,024	363,940	348,341	438,238	330,398	281,416	248,356	337,612
3 Drainage projectsnumber 1980	5	1	1	2	1	1	1	5	1
4 1950	1	1	1	1	1	1	1	1	1
5 Total area in drainage projects 1	121,412	1,638	43,090	168,757	2,611	14,757	13,198	8,645	48,469
6 1950	117,842	1,638	43,090	168,757	2,611	14,757	13,198	9,696	48,469
7 Area not used for agriculture or not drained acres served 1960									
8 Net area drained and used for agriculture acres seried 1980	121,412	1,638	43,090	168,757	2,611	14,757	13,198	8,645	48,469
9 Drainage established before 1950 acres served 1960	117,842	1,638	43,090	168,757	2,611	14,757	13,198	8,645	48,469
10 Area added, 1950-1959 acres served 1960	3,570								
Area served by two or more projects acres served 1960									
PROJECTS, 1980, BY TYPE OF ORGANIZATION									
12 Drains owned by one landowner number of projects	1								
13 acres served ²	1,490								
14 Cooperative or mutual drains	3								
15 acres served ²	2,080								
16 Legally organized public drainsnumber of projects	1	1	1	2	1	1	1	5	1
acres served ²	117,842	1,638	43,090	168,757	2,611	14,757	13,198	8,645	48,469
PROJECTS, 1960, BY YEAR STARTED									
18 1950-1959number of projects	4								
19 acres served ²	3,570								
20 Prior to 1950number of projects	1	1	1		1	1	1	5	1
21 acres served ² ;.	117,842	1,638	43,090	168,757	2,611	14,757	13,198	8,645	48,469
DRAINAGE OPERATIONS, 1950-1959 8		-					ŕ		,
DRAINAGE OPERATIONS, 1930-1959 22 Cost of drainage works and services	5	1		2	1			,	
23 dollars	681,347	4,000		62,619	4,201	•••	•••	8,754	•••
New drainage works constructed, enlarged,	002,547	*,000	•••	02,019	4,201	•••	• • • •	0,124	• • • •
or installedprojects reporting	5								
dollars	27,770	•••					•••		
Open ditchesprojects reporting	4								
length, miles	9.5								
Tile or covered drains,projects reporting	2			•••	•••				
length, mules	3.0								
Levees or dikesprojects reporting		•••				•••	••••		•••
length, miles									•••
Pumpsprojects reporting									
number of pumps									
Other (see text)	•••								•••
35 Cost of maintenance, operation, repair, and administration	1	1		2	1			4	
36 dollars	653,577	4,000		62,619	4,201			8,754	
		,		,	.,			0,,54	

¹Land served by two or more projects counted only once.

²Acres served by two projects are included for each project. See text.

³Includes projects taken over by another project prior to 1960. See text.

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

_	[continue of confidential of their and 1990 offer.]											
	Item and Consus year	Weshington	Wayne	Webster	Winnebago	Woodbury	Worth	Wright				
	AREA											
1	Approximate land area	363,520	340,480	459,520	256,640	557,440	256,000	369,280				
2	Land in farmsacres 1959	339,969	317,926	437,017	250,977	502,527	249,285	362,797				
3	Drainage projectsnumber 1980	2	1	3	13	3 ;	4	1				
4	1950	1	1	1	1	1	1	1				
5	Total area in drainage projects 1	3,755	13,000	320,660	213,765	101,253	129,507	266,320				
6	1950	3,755	13,000	319,318	209,818	101,253	124,647	265,120				
7	Area not used for agriculture or not drained acres served 1960			640								
В	Net area drained and used for agriculture acres served 1960	3,755	13,000	320,020	213,765	101,253	129,507	266,320				
9	Drainage established before 1950 acres served 1950	3,755	13,000	318,118	209,818	101,253	124,647	265,120				
10	Area added, 1950-1959 acres served 1960			1,902	3,947		4,860	1,200				
11	Area served by two or more projects acres served 1960	1,000			274		900	1,200				
		,,,,,			2,17	.,,	,,,,	•••				
	PROJECTS, 1960, BY TYPE OF ORGANIZATION											
12	Drains owned by one landowner number of projects,						1					
13	acres served ²						1,400					
14	Cooperative or mutual drainsnumber of projects.,,	1		2	2		2					
15	acres served ²	1,000		1,100	1,767		3,848					
16	Legally organized public drains number of projects	1	1	1	11	3	1	1				
17	acres served ²	3,755	13,000	318,920	212,272	101,253	125,159	266,320				
	PROJECTS, 1960, BY YEAR STARTED											
18	1950-1959 number of projects	***			2		3					
19	acres served ²				1,767		5,248					
20	Prior to 1950number of projects	2	1	3	11	3	1	1				
21	acres served ² .,	4,755	13,000	320,020	212,272	101,253	125,159	266, 320				
	DRAINAGE OPERATIONS, 1950-1959											
22	Cost of drainage works and servicesprojects reporting	1		1	12	3	4	,				
23	dollars	4,500		856,297	510,328	918,904	249,944	424,955				
24	New drainage works constructed, enlarged,	,,,,,,,		030,231	310,320	710,704	247,74	424,333				
	or installedprojects reporting	1		1	4		4	1				
25	dollars	2,900		150,241	182,137	•••	54,066	152,465				
26	Open ditchesprojects reporting	1		1	4		3	1				
27	length, miles	1.3		0.6	8.6		3.6	8.2				
28	Tile or covered draineprojects reporting	1		1	2		2	1				
29	length, miles	1.8	•••	13.9	22.8		12.2	6.6				
30	Levees or dikes		•••									
81	length, miles	• • • •	•••				•••					
32	Pumpeprojects reporting	•••										
33	number of pumps	• • • • • • • • • • • • • • • • • • • •										
34	Other (see taxt)projects reporting				1							
35	Cost of maintenance, operation, repair, and administrationprojects reporting	1		1	10	3	1	1				
36	dollars	1,600		706,056	328,191	918,904	195,878	272,490				

Land served by two or more projects counted only once.

Acres served by two projects are included for each project. See text.

Includes projects taken over by another project prior to 1960. See ext.

1.4			

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State Table 1.-DRAINAGE PROJECTS-NUMBER, AREA, COST, AND WORKS, 1920 TO 1960

[See text for comparability of data]

[See text for comparability of data]											
Lorn	1960 Census	1950 Census	1940 Census	1930 Census	1920 Census						
AREA											
Approximate land area	52,510,720	52,549,120	52,552,320	52,335,360	52,335,360						
Land in farms	50,152,870	48,611,366	48,173,635	46,975,647	45,425,179						
Drainage projects	103	121	88	NA.	NA NA						
Total area in drainage projects	402,330	356,988	258,113	257,169	93,856						
Area not used for agriculture or not drained	29,220	. NA	NA.	NA.	HJ.						
Net area drained and used for agriculture	373,110	NA.	1250,455	1253,845	N/						
Drainage established 10 years or more before Census date	309,135	NA.	NA.	NA NA	N/						
Drainage established within 10 years of Census date	63,975	NA.	NA.	NA.	N.						
Area served by two or more projects	4,873	6,353	833	557							
	4,075	0,333									
PROJECTS BY TYPE OF ORGANIZATION											
Drains owned by one landownernumber of projects	5	(2)	NA.	NA.	N.A						
acres served	3,660	(2)	7,754	5,550	2,200						
Cooperative or mutual drainsnumber of projects	14	(2)									
acres served	23,427	(2)	•••								
Legally organized public drainsnumber of projects	84	² 84	NA.	NA.	N/						
acres served	350,896	² 355 ,08 9	250,359	251,619	91,656						
PROJECTS BY YEAR STARTED											
Started 10 years or more before Census datenumber of projects	76	270	NA.	NA.	NA NA						
acres served	309,211	² 306,688	244,173	214,416	46,27						
Started within 10 years of Census datenumber of projects	27	214	NA.	NA.	NA.						
scres served	68,772	²48,401	13,940	42,753	47,579						
OPERATIONS, 10-YEAR PERIOO PRECEDING CENSUS DATE		2			NA NA						
Cost of drainage works and services projects reporting	96	² 60	NA	NA.							
	1,665,416	1,116,786	NA.	NA	NJ.						
New drainage works constructed, enlarged, or installed	45	3000 000	NA.	NA.	NA.						
	850,795	³ 279,036	NA	NA.	N/						
Open ditches	168.0	9	NA	NA.	NA NA						
Tile or covered drains. projects reporting.	168.0	48	NA NA	NA.	N.						
length, miles	0.1		NA.	NA.	NJ.						
Levees or dikes	13	7	NA.	NA.	NU NU						
length, miles	33.4	58	NA.	NA.	NU NU						
Pumps projects reporting			NA.	NA.	NU NU						
number of number		NA NA	NA.	NA NA	N/N/						
Other (see text). projects reporting.	i :		NA.	NA.	NA.						
Cost of maintenance, operation, repair, and administration	76	NA NA	NA.	NA.	NU.						
dollars	814,621	837,750	NA.	NA.	N/A						
	52.7,021	05.,750									
STATUS ON CENSUS DATE											
Capital investmentdollars	NA.	NA.	3,733,919	2,701,082	936,506						
Physical works: Open ditcheslength, milea	NA.	NA.	381.4	324.7	138.4						
Tile drains length, miles	NA.	NA.	210.5	212.1	213.0						
Levees and dikeslength, miles	NA.	NA.	278.3	227.0	165.1						
Pumping unitsnumber of units	NA.	(2)	4	2	NA						

NA Not available.

Not fully comparable. See text.

2050 figures exclude 37 projects and 1,899 acres in "irrigation enterprises."

Cost of new works for lands not previously drained.

State Table 2.-DRAINAGE

			ed and used lture, 1960	Area by period drainage was established				
Size of project (Based on area of agricultural land in project)	Number of projects	Total	Served by two	Befo	re 1950	Area added	1950-1959	
		(acres)	or more projects (acres)	Projects reporting	Acres	Projects reporting	Acres	
1 All projects	103	377,983	9,746	81	313,908	26	64,075	
2 500 to 999 acres	26	20,036	3,273	13	10,319	13	9,717	
3 1,000 to 1,999 acres	23	34,597	2,233	20	29,787	3	4,810	
4 2,000 to 4,999 acres	24	70,415	1,400	22	59,065	4	11,350	
5 5,000 to 9,999 acres	22	155,065	2,020	19	128,867	5	26,198	
5 10,000 to 19,999 acres	8	97,870	820	7	85,870	1	12,000	
7 20,000 to 49,999 acres								
8 50,000 to 99,999 acres								
9 100,000 or more acres								

State Table 3.-DRAINAGE PROJECTS, 1960,

		Ares draine for agricul		Area by period drainage was established					
Type of organization	Number of projects	Total	Served by two	Before	1950	Area added 1950-1959			
		(acres)	projects (acres)	Projects reporting	Acres	Projects reporting	Acres		
1 All projects	103	377,983	9,746	81	313,908	26	64,075		
2 Drains owned by one landowner	5	3,660				5	3,660		
8 Cooperative or mutual drains	14	23,427	1,660	4	5,060	10	18,367		
4 Legally organized public drains	84	350,896	8,086	77	308,848	11	42,048		

¹Includes projects taken over by another project prior to 1960. See text.

State Table 4.-DRAINAGE PROJECTS, 1960,

			Area by period drainage was established					
Number of		Served by two	Before	1950	Area added 1950-1959			
projects	Total (acres)	or more projects (acres)	Projects reporting	Acres	Projects reporting	Acres		
103	377,983	9,746	81	313,908	26	64,0		
27	68,772	1,920	5	7,687	24	61,0		
76	309,211	7,826	76	306,221	2	2,9		
	projects 103 27	Number of For agricul	projects Total cr sore (acres) projects (acres) projects (seres) 103 377,983 9,746 27 68,772 1,920	Number of projects For agriculture, 1960 Ares	Number of projecte Total (acres) Served by two projects (acres) Served by two projects (acres) Fro	Number of projects Total Served by two		

¹Includes projects taken over by another project prior to 1960. See text.

PROJECTS, 1960, BY SIZE

Tot	tal	For new	works	Open d	itches	Tile or cove	ered drains	Levees a	nd dikes	Pum	ps	Other,
rojects eporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number	projects reporting
96	1,665,416	45	850,795	44	168.0	1	0.1	13	33.4			ź
26	90,481	17	62,513	17	39.1			2	1.4			
21	144,274	5	53,900	5	19.5			2	2.3			
22	350,755	9	125,591	9	36.2			3	9,4			1
20	637,243	11	429,272	n	35.2	1	0.1	4	11.0			1
7	442,663	3	179,519	2	38.0			2	9.3			
	• • •											
								1	أ			

BY TYPE OF ORGANIZATION

Cost of d	rsinage works	and services,	1950-1959			New works	New works constructed, enlarged, or installed, 1950-1959						
To	tal	For new	works	Open d	itches	Tile or cove	red drains	Levees a	nd dikes	Pump	6	Other,	
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number	projects reporting	
96	1,665,416	45	850,795	44	168.0	1	0.1	13	33.4			2	
5	25,300	5	18,500	5	15.2			1	0.4				
116	97,595	12	78,295	12	35.4			2	2.3				
75	1,542,521	28	754,000	27	117.4	1	0.1	10	30.7			2	

BY YEAR OF ORGANIZATION

Cost of	drainage works	and services,	1950-1959			New works	constructed, e	nlarged, or i	nstalled, 195	0-1959			T
T	otal	For ne	w works	Open d	itches	Tile or cov	ered drains	Levees a	nd dikes	Pu	mps	Other,	1
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Frojects reporting	Length (miles)	Projects reporting	Number	projects reporting	
96	1,665,416	45	850,795	44	168.0	1	0.1	13	33.4			2	
131	485,909	29	443,540	29	105.7	1	0.1	8	20.6			2	
65	1,179,507	16	407,255	15	62.3	•••		5	12.8				

County Table 1. –DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

_	Item and Census year	The State	Atchison	Brown	Chase	Chautauqua	Clay	Cloud	Coffey
	AREA								
1	Approximate land areaacres 1980	52,510,720	269,440	369,920	495,360	414,080	421,120	455,040	/10 6/0
2	Land in farms	50,152,870	257,740	358,783	490,673	399,565	415,736	424,135	419,840 386,980
2		103	3	1	1	1	42,730	1	386,980
4	1950	121	3	1	1	1	1		
	Total area in drainage projects 1	402,330	17,986	5,129	1,720	7,742	6,480	2,005	3,920
е	1950	356,988	16,241	5,129	1,720	7,742	1,700		
7	Area not used for agriculture or not drained acres served 1960	29,220							
е	Net area drained and used for agriculture acres served 1960	373,110	17,986	5,129	1,720	7,742	6,480	2,005	3,920
9	Drainage established before 1950 acres served 1960	309,135	17,986	5,129	1,720	7,742	1,700	2,005	-,
10	Area added, 1950-1959 , acres served 1960	63,975			·	ĺ	4,780		3,920
11	Area served by two or more projects acres served 1960	4,873							
	PROJECTS, 1980, BY TYPE OF ORGANIZATION								
10									2
13	Drains owned by one landowner	3,660	••••	•••					1,600
			• • •						2
15	Cooperative or mutual drainsnumber of projects acres served ²	23,427							2,320
16	Legally organized public drains number of projects	25,427	3		1	1	2		
17	acres served ²	350,896	17,986	5,129	1,720	7,742	6,480	2,005	
**	acres serveu	330,030	11,900	,,,,,,	1,720	1,12	0,400	2,000	•••
	PROJECTS, 1980, BY YEAR STARTED								
18	1950-1959 number of projects	27		• • •			1	1	4
19	acres served ²	68,772					4,780	2,005	3,920
20	Prior to 1950number of projects	76	3	1	1	1	1		
21	acres served ²	309,211	17,986	5,129	1,720	7,742	1,700		
	DRAINAGE OPERATIONS, 1950-1959 8								
22	Cost of dramage works and services	96	1	1		1	2	1	4
23	dollars	1,665,416	75,000	2,307		- 8,759	33,844	2,048	23,800
24	New drainage works constructed, enlarged, or installed	45					1	1	3
25	dollars	850.795					27,876	1,182	12,500
26	Open ditches	44					1	1,102	3
27	length, miles	168.0					4.0	0.5	13.1
26	Tile or covered drains	1					*.0		
29	length, miles	0.1							•••
30	Levees or dikes	13						1	
31	length, miles	33.4						3.0	•••
32	Pumps	33.4						3.0	
33	number of pumps								•••
34	Other (see text)	2					1		
35	Cost of maintenance, operation, repair, and								•••
	administrationprojects reporting	76	1	1		ī	2	1	3
36	dollars	814,621	75,000	2,307		8,759	5,968	866	11,300

land served by two or more projects counted only once.

Acres served by two projects are included for each project. See text.

Includes projects taken over by another project prior to 1960. See text.

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

Item and Census year	Cowley	Doniphan	Douglas	Finney	Ford	Franklin	Harvey	Jackson
AREA								
Approximate land areaacres 1960	727,040	242,560	299,520	833,280	1693,120	369,280	1 _{345,600}	419,84
Land in farmsacres 1959	695,318	234,838	277,698	776,519	1702,812	344,178	¹ 347,255	379,1
Drainage projectsnumber 1960	2	5	4	2	1	4	5	
1950	3	3	9	1.	1	3	3	
Total area in drainage projects	3,120	16,907	16,039	18,520	700	15,260	7,020	9,3
1950	4,120	12,040	27,559	25	10	12,680	5,280	9,6
Area not used for agriculture or not drained acres served 1960			•••					
Net area drained and used for agriculture acres served 1960	3,120	16,907	16,039	18,520	700	15,260	7,020	9,3
Dramage established before 1950 acres served 1960	3,120	16,907	16,039			14,860	5,920	9,3
Area added, 1950-1959 acres served 1960				18,520	700	400	1,100	
Area served by two or more projects acres served 1960		1,400				820		
PROJECTS, 1980, BY TYPE OF ORGANIZATION								
Drains owned by one landowner								
acres served ³								
Cooperative or mutual drainsnumber of projects	1				1	2		
acres served ⁵	1,500				700	1,220		
Legally organized public drains number of projects	1	5	4	2 :		2	5	
acres served ³	1,620	18,307	16,039	18,520		14,860	7,020	9,3
PROJECTS, 1960, BY YEAR STARTED								
1950-1959 number of projects				2	1	1	2	
acres served ³				18,520	700	400	1,740	
Prior to 1950number of projects	2	5	4			3	3	
acres served ⁵	3,120	18,307	16,039			15,680	5,280	9,3
DRAINAGE OPERATIONS, 1950-1959								
Cost of drainage works and servicesprojects reporting	1	4	4	2	1	3	3	
dollars	2,000	82,476	23,397	84,621	2,400	11,700	35,210	2,05
New drainage works constructed, enlarged, or installed		1	1	2	1	(5)	2	
dollars		1,000	1,600	84,621	2,400	(5)	33,050	
Open ditches		1,000	1,000	2	1	(5)	2	-
length, miles		0.6	0.7	23.0	1.2	(5)	4.3	
Tile or covered drainsprojects reporting				23.0			**.5	
length, miles								• •
Levees or dikesprojects reporting							1	
length, miles							2.0	••
Pumpsprojects reporting								
number of pumps				···				••
Other (see text)projects reporting								
Cost of maintenance, operation, repair, and				,,,				••
administrationprojects reporting	1	4	4			(5)	2	
dollars	2,000	81,476	21,797			(5)	2,160	2,07

The excess of farm acreage over approximate land area is due to the fact that the entire acreage of a farm is tabulated as in the county in which the headquarters is located, even though a part of the farm may be situated in an adjoining county.

Than deerwed by two or more projects counted only once.

Acres served by two projects are included for each project. See text.

Tincluded projects taken over by another project prior to 1960. See text.

Included in State total only.

County Table 1. - DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

	Item and Census year	Jefferson	Labette	Lincoln	McPherson	Marion	Meade	Miemi	Montgomery
\vdash									
	AREA					,			
1	proximate land areaacres 1960	351,360	418,560	464,640	572,800	1 _{613,760}	1624,640	378,240	415,36
	und in farmsacres 1959	314,650	399,600	453,196	1595,373	¹ 624,939	1628,334	341,730	361,050
3 Dr	ainage projectsnumber 1960	7	1	1	8	1	1	3	
4	1950	9	1		4	1		• • • • • • • • • • • • • • • • • • • •	
5 To	stal area in drainage projects 2	22,580	3,880	8,800	18,870	5,060	2,400	3,207	15,88
6	1950	16,582	3,880		14,970	5,060			17,04
	Area not used for agriculture or not drained acres served 1980				• • • • • • • • • • • • • • • • • • • •				
8	Net area drained and used for agriculture acres served 1980	22,580	3,880	8,800	18,870	5,060	2,400	3,207	15,88
9	Drainage established before 1950 acres served 1960	16,872	3,880		17,890	5,060		•••	15,88
10	Area added, 1950-1959 acres served 1960	5,708		8,800	980		2,400	3,207	
11	Area served by two or more projects acres served 1980	1,080							64
	PROJECTS, 1960, BY TYPE OF ORGANIZATION								
12 Dn	sans owned by one landowner number of projects							1	
18	acres served ³							960	
4 Co	operative or mutual drainsnumber of projects			1	1			2	
15	acres served ⁸			8,800	2,100			2,247	64
16 Le	gally organized public drainsnumber of projects	7	1		7	1	1		
17	acres served ⁵	23,660	3,880		16,770	5,060	2,400		15,88
		-,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			,,,,,,	2,100		15,00
18 19	PROJECTS, 1980, BY YEAR STARTED 50-1959number of projects	1		1	3		1	3	
19	acres served ⁵	6,300		8,800	3,080		2,400		64
	or to 1950number of projects	6			5,000			3,207	
21	acres served	17,360	3,880			1		•••	
1		17,360	3,680	•••	15,790	5,060			15,88
	DRAINAGE OPERATIONS, 1950-1959								!
- 1	st of drainage works and servicesprojects reporting	12	1	(5)	8	1	1	3	
23 Ne	dollars w drainage works constructed, enlarged,	122,032	5,000	(5)	49,930	26,474	18,578	46,275	8,910
01	installedprojects reporting	8		(5)	4	1	1	3	(5
25	dollars	79,093		(5)	20,150	4,000	15,828	42,675	(5
26 0	Open ditchesprojects reporting	8		(5)	4	1	1	3	(5
27	length, miles	26.8		(5)	4.8	0.8	4.5	10.8	(5
28 1	Tile or covered drainsprojects reporting	1							
29	iength, miles	0.1							
30 I	Levees or dikesprojects reporting	1			1	1	1	2	
1	length, miles	1.0			0.8	0.5	0.6	1.7	
12 1	Pumpeprojects reporting								
33	number of pumps								
14 (Other (see text)projects reporting	1							
1	st of maintenance, operation, repair, and	1						•••	
	Iministrationprojects reporting	6	1		8	1	1	2	(5
16	dollars	42,939	5,000		29,780	22,474	2,750	3,600	(5)

The excess of farm acreage over approximate land area is due to the fact that the entire acreage of a farm is tabulated as in the county in which the headquarters is located, even though a part of the farm may be situated in an adjoining county.

**Ziand served by two prome projects counted only once.

**Jacres served by two projects are included for each project. See text.

**Included projects taken over by another project prior to 1960. See text.

**Included in State total only.

County Table 1. - DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

_			1	I					
	Item and Census year	Nemaha	Neosho	Osage	Ottawa	Pottawatomie	Reno	Republic	Rice
	AREA					_			
1	Approximate land area	453,760	375,680	401,440	4-2,720	544,000	803,200	460,160	1461,440
2	Land in farmsacree 1959	449,355	339,784	454,898	419,706	466,236	788,940	442,324	1466,857
3	Drainage projectsnumber 1960	1	16	1	1	2	4	2	1
4	1950	1	16	1		2	1	2	1
5	Total area in drainage projects 2 acres served 1960	2,859	19,247	7,012	700	10,920	15,520	4,727	1,600
6	1950	2,859	20,247	7,012		10,920	3,840	4,727	320
7	Area not used for agriculture or not drained acres served $1980\ldots$								
8	Net area drained and used for agriculture acres served 1960	2,859	19,247	7,012	700	10,920	15,520	4,727	1,600
9	Dramage established before 1950 acres served 1960	2,859	19,247	7,012		10,920	13,840	4,727	320
10	Area added, 1950-1959 acres served 1960				700		1,680		1,280
11	Area served by two or more projects acres served 1980		833						***
	PROJECTS, 1960, BY TYPE OF ORGANIZATION								
12	Drains owned by one landowner number of projects								
13	actes served ³								
14	Cooperative or mutual drainsnumber of projects				1				
15	acres served ³				700				
16	Legally organized public drainsnumber of projects	1	16	1		2	4	2	1
17	acres served ³ ,	2,859	20,080	7,012		10,920	15,520	4,727	1,600
	PROJECTS, 1960, BY YEAR STARTED								
	1950-1959	• • • •	• • • •		1	•••	2		
19	acres served ³ Prior to 1950number of projects				700		1,680		***
20	scres served 3	2,859	16 20,0 8 0	7,012	•••	2	2	2	1
21	Butter Served	£,027	20,080	عدانو ٢		10,920	13,840	4,727	1,600
	DRAINAGE OPERATIONS, 1950-1959								
22	Cost of drainage works and services	***	15		(5)	2	4	2	1
23	dollars		35,135		(5)	59,621	55,865	5,453	15,000
24	New drainage works constructed, enlarged, or installedprojecta reporting		2		(5)	1	3		1
25	dollars		7,700		(5)	2,000	43,350		12,000
26	Open ditches projects reporting		2		(5)		3		1
27	length, miles		5.5		(5)		8.5		3.5
28	Tile or covered drainsprojects reporting								
29	length, miles								
30	Levees or dikesprojects reporting					1	2		
31	length, miles				***	0.7	4.0		
32	Pumpsprojects reporting								
33	number of pumps								
34	Other (see text)projects reporting								
35	Cost of maintenance, operation, repair, and		15						
36	administrationprojects reporting dollars	***	27,435			57 621	12 515	5 / 53	3 000
36	dollars		<1,430			57,621	12,515	5,453	3,000

The excess of farm acreage over approximate land area is due to the fact that the entire acreage of a farm is tabulated as in the county in which the headquarters is located, even though a part of the farm may be situated in an adjoining county.

Than served by two projects are included for each project. See text.

Included in State total only.

County Table 1. - DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

Item and Census year	Riley	Saline	Sedgwick	Shawnee	Stafford	Summer	Wabaunsee	All other counties1
AREA								
Approximate land areaacres 1980	399,360	460,800	639,360	348,800	508,160	756,480	² 506,240	6,108,16
Land in farms	338,172	415,160	601,019	312,253	505,183	741,083	² 510,389	6,097,90
Drainage projectsnumber 1960	1	2	8	4	4	2	1	
1950	3	3	6	5		2	2	:
Total area in drainage projects 3	760	6,583	63,090	35,840	2,700	17,700	500	
1950	792	7,350	55,584	41,240		17,700	2,300	20,6
Area not used for agriculture or not drained acres served 1960			10,220	7,000		12,000		
Net area drained and used for agriculture acres served 1960	760	6,583	52,870	28,840	2,700	5,700	500	
Drainage established before 1950 acres served 1960	760	6,583	45,770	28,840		5,700	500	
Area added, 1950-1959 acres served 1960	***		7,100		2,700			
Area served by two or more projectsacres served 1960					100			
PROJECTS, 1960, BY TYPE OF ORGANIZATION								
Drains owned by one landowner number of projects			***		2			
acres served				***	1,100			
Cooperative or mutual drains			1	***	2			
acres served			1,500	***	1,700			
Legally organized public drainsnumber of projects	1	2	7	4		2	1	
acres served 4	760	6,583	51,370	28,840		5,700	500	
PROJECTS, 1960, BY YEAR STARTED					1			
1950-1959number of projects			2		4			
acres served 4			7,100		2,800			
Prior to 1950number of projects	1	2	6	4		2	1	
acres served 4 .	760	6,583	45,770	28,840		5,700	500	
DRAINAGE OPERATIONS, 1950-1959 ⁵								
Cost of drainage works and services projects reporting		. 2	8	4	4	2	1	
dollars		4,706	437,481	346,550	10,000	5,000	8,273	
New drainage works constructed, enlarged, or installedprojects reporting			3	4	4		1	
dollars			220,470	209,300	10,000		500	
Open ditchesprojects reporting			3	3	4			
length, miles			32.5	4.2	7.6			
Tile or covered drainsprojects reporting								
length, miles	1							
Levees or dikes			3	2			1	
length, miles			13.5	5.5			0.1	
Pumpsprojects reporting								
number of pumps								
Other (see text)								
Cost of maintenance, operation, repair, and administration		2	7	4		2	1	
projects reporting.		4,706	217,011	137,250	•••	5,000	7,773	•

Includes Barton, Greenwood, Haskell, Kearuy, Lyon, Ness, Osborne, Pawnee, Soott, Sheridan, and Trego counties.

The excess of farm acreage over approximate land area is due to the fact that the entire acreage of a farm is tabulated as in the county in which the headquarters is located, even though a part of the farm may be situated in an adjoining county.

Land served by two or more projects counted only once.

Acres served by two projects are included for each project. See text.

Includes projects taken over by another project prior to 1960. See text.

State Table 1.-DRAINAGE PROJECTS-NUMBER, AREA, COST, AND WORKS, 1920 TO 1960

[See text for comparability of data]

[Sec	e text for comparability of di	sta]			
loem.	1960 Census	1950 Census	1940 Census	1930 Census	1920 Census
AREA					
Approximate land areaacres	25,512,320	25,511,960	25,699,760	25,715,840	.5,715,84
Land in farmsacres	17,030,675	19,441,774	20,294,016	19,927,286	21,612,77
Drainage projectsnumber	.48	18	1144	NA.	,
Total area in drainage projects	945,515	959,892	465,270	585,625	358,48
Area not used for agriculture or not drained	56,716	NA.	NA.	NA.	
Net area drained and used for agricultureacres served	888,799	NA	² 464,963	² 515,101	
Drainage established 10 years or more before Census date	882,753	NA	NA.	NA.	u u
Drainage established within 10 years of Census date	6,046	NA.	, NA	NA.	n
Area served by two or more projectsscres served	2,000	NA	50,347	40,783	
PROJECTS BY TYPE OF ORGANIZATION				,	
Orains owned by one landownernumber of projects	1	(3)	NA.	NA.	11
scres served	2,000	(3)	3,150	3,500	6,400
Cooperative or mutual drains	10	(3)	•••		
acres served	8,660	(3)	19		
.egally organized public drains	17	318	NA.	NA.	112
acres served	880,139	3959,892	462,120	582,125	352,080
PROJECTS BY YEAR STARTED					
Started 10 years or more before Census datenumber of projects	20	NA.	NA.	NA.	l N
acres served	884,153	NA.	446,686	433,155	4112,937
Started within 10 years of Census datenumber of projects	8	NA.	NA.	NA.	N/
acres served	6,646	NA.	18,584	152,470	4243,743
			,		
OPERATIONS, 10-YEAR PERIOD PRECEDING CENSUS DATE					
Cost of drainage works and services	17	14	A\$1	NA.	N/
dollars	897,753	711,162	NA.	NA	N/
New drainage works constructed, enlarged, or installed projects reporting	10	55	NA.	1JA	NA
cost, dollars	97,291	°44,832	NA.	NA	11.A
Open ditches, projects reporting	10	4	NA.	A.f	nu
leagth, miles	28.4	2.2	NA.	NA.	NA
Tile or covered drains, projects reporting	1	1	NA.	NA.	11/
length, miles	20.0	1	NA.	NA.	tu.
Levees or dikesprojects reporting			NA	NA.	NA
length, miles		***	NA	ILA	N.A
Pumps projects reporting		NA	NA	1LA	N.A
number of pumps		11A	NA	AN	104
Other (see text)		NA	NA	NA	NA
Cost of maintenance, operation, repair, and administration projects reporting	10	13	NA.	NA	11.4
dollars	800,462	666,330	NA.	NA	N.A
STATUS ON CENSUS DATE					
Capital investment,	NA NA	NA.	/ 8/7 00/	6 250 422	1 601 70
Physical works:	IIA	NA.	4,947,994	5,357,633	1,521,72
Open ditches. length, miles	AIS	11A	1,231.8	1,204.8	664.5
Tile drains					
	na.	11A.	2.0	71.0	86
Levees and dikes	na na	SIA NA	2.0	71.0	86 C.:

NA Not available.

1n 1940, each county drain was counted as a separate project. See text.

3no 1950, all projects included with county drains. See text.

1n 1950, all projects included with county drains. See text.

1n 1920, flyures exclude 1,800 acres for which date of organization was not reported.

Cost of new works for lands not previously drained.

State Table 2.-DRAINAGE

			ed and used liture, 1960	Area by period drainage was established					
Size of project (Based on area of agricultural land in project)	Number of projects	Total	Served by two	Befor	re 1950	Area added 1950-1959			
		(acres)	or more projects (acres)	Projects reporting	Acres	Projects reporting	Acres		
t All projects	28	890,799	4,000	21	884,753	7	6,046		
2 500 to 999 acres	7	4,566		2	1,270	5	3,296		
3 1,000 to 1,999 acres	6	8,683		4	5,933	2	2,750		
2,000 to 4,999 acres	1	2,000	2,000	1	2,000				
5 5,000 to 9,999 acres	2	14,400		2	14,400				
10,000 to 19,999 scres	2	29,191		2	29,191				
20,000 to 49,999 acres	2	52,271		2	53,371				
50,000 to 99,999 acres	5	335,569	2,000	5	335,569				
100,000 or more acres	3 .	443,019		3	443,019				

State Table 3.-DRAINAGE PROJECTS, 1960,

		Area draine for agricul		Ares	by period drains	ge was established	1
Type of organization	Number of projects	Total	Served by two	Before	1950	Area added 1950-1959	
	projecto.	(acres)	or more projects (acres)	Projects reporting	Acres	Projects reporting	Acres
All projects	28	30 ,700	4,000	21	884,753	7	6,04
Drains owned by one landowner	1	.,10	2,000	1	000,		
Cooperative or mutual drains	10	8,660		3	2,614	7	6,0
Legally organized public drains	17	880,139	2,000	17	880,139		

State Table 4.-DRAINAGE PROJECTS, 1960,

		Area draine for agricul		Are	a by period drain	age was establish	ed	
Year of organization	Number of projects		Served by two	Befor	e 1950	Area added 1950-1959		
	projects	Total (acres)	or more projects (acres)	Projects reporting	Acres	Projects reporting	Acres	
1 All projects.	28	890,799	4,000	21	884,753	7	6,046	
2 1950-1959	8	6,646		1	600	7	6,046	
3 Prior to 1950	20	884,153	4,000	20	884,153		•••	

PROJECTS, 1960, BY SIZE

		0-1959	natalled, 195	nlarged, or in	constructed, e	New works			1950-1959	and services,	rsinage works	Cost of d
Other,	Frumps		nd dikes	Levees and dikes		Tile or cov	i tches	Open d	works	For new	tel	To
projects reporting	Number	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Frojects reporting	Length (miles)	Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting
 					20.0	1	28.4	10	97,291	10	897,753	17
 							15.3	6	34,383	6	34,483	6
 							9.0	2	14,600	2	14,600	2
 					20.0	1	1.1	1	35,000	1	45,000	1
 											565	1
 											3,500	1
 											469,787	3
							3.0	1	13,308	1	329,818	3

BY TYPE OF ORGANIZATION

Cost of d	rainage works	and services,	1950-1959			New works	constructed, e	enlarged, or i	installed, 19	50-1959		
To	tal	For new	works	Open d	itches	Tile or cove	red drains	Levees a	nd dikes	Fump)S	Other,
Projects reporting	Dollars	Frojects reporting	Dollars	Frojects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number	projects reporting
17	897,753	10	97,291	10	28.4	1	20.0					
1	45,000	1	35,000	1	1.1	1	20.0					
8	49,083	8	48,983	8	24.3							
8	803,670	1	13,308	1	3.0							

BY YEAR OF ORGANIZATION

Cost of d	irainage works	and services,	1950-1959			New works	constructed, en	nlarged, or i	nstalled, 195	0-1959		
To	otal	For ne	w works	Open di	tches	Tile or cove	red drains	Levees a	nd dikes	Pun	mps	Other.
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number	projects reporting
17	897,753	10	97,291	10	28.4	1	0.0					
8	49,083	8	48,983	8	24.3							
9	848,670	2	48,308	2	4.1	1	20.0					

County Table 1. - DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959 See text for comparability of 1960 and 1950 data

Item and Census year The State Ballard Butler Carlisle Daviess Fulton Graves Greenup AREA 25,512,320 165,760 283,520 125,440 131,200 358,400 224.000 17.030.675 123.221 161,430 90,547 244,254 111,438 256,907 116,479 Drainage projects.....number 1960 ... 28 2 18 945,515 6,670 203,200 2,300 21.720 1 246 1950 . . . 959,892 6,720 203,200 384 16,335 Area not used for agriculture or not drained acres served 1980 . . . 56.716 4.000 Net area drained and used for agriculture acres served 1960. . . 888,799 6,720 6,670 199.200 2,300 21,720 1,246 Drainage established before 1950 acres served 1960 . . . 882,753 6,720 6,670 199,200 21,720 10 Area added, 1950-1959 acres served 1960 . . . 6,046 2,300 1.246 Area served by two or more projects...... acres served 1960... PROJECTS, 1960, BY TYPE OF ORGANIZATION 12 Drains owned by one landowner number of projects . . . 13 15 acres served2, 8,660 2,300 1.246 16 Legally organized public drains number of projects . . . 17 880,139 2.873 6.720 6,670 199,200 21,720 PROJECTS, 1960, BY YEAR STARTED 18 1950-1959 number of projects ... 2 6.646 2,300 20 Prior to 1950.....number of projects... 21 199,200 21.720 DRAINAGE OPERATIONS, 1950-1959 22 Cost of drainage works and services projects reporting . . . 2 23 dollars... 897,753 (4) 3,500 8,433 24 2 25 dollars . . . 97.291 8,433 26 Open ditches......projects reporting... 27 length, miles . . . 28.4 3.2 28 29 length, miles . . . Levees or dikes......projecte reporting... 30 31 32 Pumpsprojects reporting... 33 number of numbs . . . st of maintenance, operation, repair, and 10 administration.....projects reporting... 800,462

land served by two or more projects counted only once.
Acres served by two projects are included for each project. See text.
Fincludes projects taken over by another project prior to 1960. See text.
Included in State total only.

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

Item and Census year	Hancock	Henderson	Hickman	Hopkins	Jefferson	McCracken	McLean	Mershell
AREA								
1 Approximate land areaacres 1960	119,680	281,600	158,720	355,200	240,000	100,640	164,480	193,920
2 Land in farme	79,935	238,540	120,762	201,870	98,383	87,032	125,251	112,067
3 Drainage projectsnumber 1980	1	2	1	3	1	2	1	1
1950	1	1	1	1	1	1	1	1
Total area in drainage projects	33,280	99,776	7,680	18,256	99,264	6,936	58,432	1,024
1950	33,280	101,376	7,680	16,256	99,264	1,773	58,432	1,024
Area not used for agriculture or not drained acres served 1988				3,400	38,016		2,600	
Net area drained and used for agriculture acres served 1960	33,280	99,776	7,680	14,856	61,248	6,936	55,832	1,024
Drainage established before 1950 acres served 1960	33,280	99,776	7,680	12,856	61,248	6,936	55,832	1,024
Area added, 1950-1959 acres served 1960				2,000				
Area served by two or more projectsacres served 1960		2,000						
PROJECTS, 1960, BY TYPE OF ORGANIZATION								
Drains owned by one landowner number of projects		1						
acres served ²		2,000						
Cooperative or mutual drainsnumber of projects				2				
acres served ² .,				2,000				
Legally organized public drains	1	1	1	1	1	2	1	1
acres sen ed ²	33,280	99,776	7,680	12,856	61,248	6,936	55,832	1,024
PROJECTS, 1960, BY YEAR STARTED								
1950-1959				2				
acres served ²		***		2,000				
Prior to 1950number of projects	1	2	1	1	1	2	1	1
acres served ²	33,280	101,776	7,680	12,856	61,248	6,936	55,832	1,024
DRAINAGE OPERATIONS, 1950-1959 8								
Cost of dramage works and servicesprojects reporting		(4)	1	2	1		1	
dollars		(4)	565	4,950	428,120		5,500	
New drainage works constructed, enlarged, or installedprojects reporting		(4)		2				
dollars		(4)		4,950				
Open ditchesprojects reporting	***	(4)		2				
length, miles		(4)		8.0				
Tile or covered drainsprojects reporting		(4)						
length, miles		(4)						
Levees or dikes								
length, miles								
Pumpeprojects reporting								
number of pumps								
Other (see text)								
Cost of maintenance, operation, repair, and administration		(4)	1		1		1	
dollars		(4)	565		428,120		5,500	
oblias		(' ')	365		**20,120		3,300	• • • • • • • • • • • • • • • • • • • •

land served by two or more projects counted only once.

Acres served by two projects are included for each project. See text.

Includes projects taken over by another project prior to 1960. See text.

Included in State total only.

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

_			t for comparability of 1	900 and 1950 data				
	Item and Census year	Muhlenberg	Ohio	Spencer	Trigg	Union	Warren	Webster
	AREA							
1	Approximate land areaacres 1960	308,480	381,440	123,520	292,480	219,520	349,440	216,960
2	Land in farms	155,350	198,622	117,598	167,590	167,555	296,567	153,130
3	Drainage projectsnumber 1960	1	2	1	1	1	1	2
4	1950	1	1	1		1	1	,
5	Total area in drainage projects acres served 1960	59,457	65,856	1,792	500	136,116	1,344	111,073
8	1950	59,457	65,856	1,792		166,116	1,344	119,603
7	Area not used for agriculture or not drained acres served 1960	6,000						2,700
8	Net area drained and used for agriculture acres served 1980	53,457	65,856	1,792	500	136,116	1,344	108,373
9	Drainage established before 1950 acres served 1960	53,457	65,856	1,792		136,116	1,344	108,373
10	Area added, 1950-1959 acres served 1960			·	500			100,575
11	Area served by two or more projects acres served 1980							
	PROJECTS, 1960, BY TYPE OF ORGANIZATION							
	Drains owned by one landowner number of projects	***	• • • •					• • • • • • • • • • • • • • • • • • • •
13	acres served ²							***
	Cooperative or mutual drainsnumber of projects		1		1		1	1
15	acres served ² .	••• ;	600		500		1,344	670
	Legally organized public drainsnumber of projects	3	1	1		1		1
17	acres served ²	53,457	65,256	1,792		136,116		107,703
	PROJECTS, 1960, BY YEAR STARTED						ĺ	
18	1950-1959 number of projects		1		1			
19	acres served ²		600		500			
20	Prior to 1950number of projects	1	1	1		1	1	2
21	acres served ²	53,457	65,256	1,792		136,116	1,344	108,373
	DRAINAGE OPERATIONS, 1950-1959							
22	Cost of drainage works and servicesprojects reporting		1		1	1		1
23	dollars		1,600		10,000	58,808		40,000
24	New drainage works constructed, enlarged,					,		1.,,,,,,
	or installedprojects reporting	• • •	1	***	1	1		•••
25	dollars		1,500		10,000	13,308		• • •
28	Open ditchesprojects reporting		1		1	1		• • •
27	length, miles		1.0		3.1	3.0		
28	Tile or covered drainsprojects reporting		• • •					•••
29	length, miles	***			• • • •			•••
30	Levees or dikesprojects reporting							•••
31	length, males							
32	Pumpeprojects reporting		• • • •					***
33	number of pumps							•••
34	Other (see text)			***				•••
35	Cost of maintenance, operation, repair, and administrationprojects reporting		1			1		1
38	dollars		100			45,500		40,000
\perp						1		

¹Land served by two or more projects counted only once.

²Acres served by two projects are included for each project. See text.

³Includes projects taken over by another project prior to 1960. See text.

State Table 1.-DRAINAGE PROJECTS-NUMBER, AREA, COST, AND WORKS, 1920 TO 1960

[See text for comparability of data]

L.	ar wat to comparating of the	nta j			
Item	1960 Census	1950 Census	1940 Census	1930 Census	1920 Census
AREA					
Approximate land area	. 28,867,840	28,903,680	28,913,280	29,061,760	29,061,76
Land in farms		11,202,278	9,996,108	9,355,437	10,019,82
Prainage projectsnumber		922	495	NA.	N.
Fotal area in drainage projects	. 9,089,516	12,161,665	4,219,624	3,655,483	2,266,32
Area not used for agriculture or not drained		NA.	NA.	NA NA	N.
Net area drained and used for agriculture	7,110,624	NA.	12,512,250	12,571,531	N.
Drainage established 10 years or more before Census data		NA.	NA.	NA.	l N
Drainage established within 10 years of Census date	. 965,687	NA.	NA.	NA.	N.
Area served by two or more projects	. 1,255,460	509,987	483,850	437,630	75,70
PROJECTS BY TYPE OF ORGANIZATION				,	,
rains owned by one landowner	. 526	² 199	NA.		
acros served		² 344,239	² 412,303	NA (OC (OC	NU
Cooperative or mutual drains		295		402,496	36,463
ncres served		² 128,197	•••		
egally organized public drainsnumber of projects		2117			NA NA
acres served		²11,605,479	NA 23,795,721	NA OSS SAFE	·-
miteo cerreu	7,337,112	11,605,479	-3,795,721	3,252,987	2,229,865
PROJECTS BY YEAR STARTED					
started 10 years or more before Census datenumber of projects	. 608	² 94	NA.	NA.	NA NA
scres served	6,936,683	²1,727,948	3,664,122	2,701,069	1,183,536
started within 10 years of Census datenumber of projects	. 307	² 317	NA.	NA.	N.A
acres served	1,521,116	² 10,349,9 6 7	555,502	954,414	1,082,792
OPERATIONS, 10-YEAR PERIOD PRECEDING CENSUS DATE					
Cost of drainage works and services projects reporting	753	² 392	NA.	NA.	
dollars	1	16,652,384	NA.	NA.	NA
lew drainage works constructed, enlarged, or installedprojects reporting		3142	NA NA		NA
cost, dollars		³ 5,316,026	NA NA	NA NA	NA NA
Open ditches. projects reporting.		141	NA NA	NA.	NA NA
length, miles		2,116	NA.	NA NA	NA NA
Tile or covered drains. projects reporting.		2,110	NA NA	NA I	
length, miles					N.A
Levees or dikesprojects reporting		12	NA NA	NA NA	NA NA
length, miles	215.2	166	NA NA	NA NA	NA NA
Pumps projects reporting	1	NA NA	NA NA	NA NA	
number of pumps	"	NA NA	NA .	NA.	NA NA
Other (see taxt)	1	NA NA	NA.	NA NA	NA NA
Cost of maintenance, operation, repair, and administration	490	NA NA	NA NA	NA.	NA NA
dollars		11,336,358	NA NA	NA NA	NA NA
	11,505,755	11,550,550	ica	IGR.	NA.
STATUS ON CENSUS DATE					
apital investmentdollars	NA NA	NA.	23,361,758	20,752,645	9,021,991
Thysical works: Open ditcheslength, miles					
Open discress	. NA	NA	7,105.5	7,701.2	1,771.6
Tile drains length, miles	NA.	NA NA	7,105.5 6.0	7,701.2	1,771.6
	NA NA		·	·	

NA Not available. See text.

Not fully comparable. See text.

Not fully comparable. See text.

Not fully comparable. See text.

Not fully comparable. See text.

Not fully comparable. See text.

Not fully comparable. See text.

Not fully comparable. See text.

Not fully comparable. See text.

Not fully comparable. See text.

Not fully comparable. See text.

Not fully comparable. See text.

Not fully comparable. See text.

Not fully comparable. See text.

State Table 2.-DRAINAGE

			ed and used lture, 1960	Area by period drainage was established					
Size of project (Based on area of agricultural land in project)	Number of projects	Total	Served by two	Befo	re 1950	Area added	1950-1959		
		(acres)	or more projects (acres)	Projects reporting	Acres	Projects reporting	Acres		
1 All projects	915	8,457,799	2,602,635	835	7,425,144	116	1,032,655		
2 500 to 999 acres	373	261,601	222,648	337	235,582	41	26,019		
3 1,000 to 1,999 acres	271	373,294	298,830	241	330,512	36	42,782		
4 2,000 to 4,999 acres	126	361,443	256,476	117	326,851	16	34,592		
5 5,000 to 9,999 acres	28	203,467	69,580	27	184,138	3	19,329		
8 10,000 to 19,999 acres	43	600,013	180,205	42	567,883	5	32,130		
7 20,000 to 49,999 acres	36	1,111,624	425,471	34	876,938	7	234,686		
8 50,000 to 99,999 acres	16	1,046,309	223,134	16	815,289	4	231,020		
9 100,600 or more acres	22	4,500,048	926,291	21	4,087,951	4	412,097		

¹Includes projects taken over by another project prior to 1960. See text.

State Table 3.-DRAINAGE PROJECTS, 1960,

		Area drained for agricul		Area	by period drains	ge was establishe	d
Type of organization	Number of projects	m-+-1	Served by two	Before	1950	Area added	1950-1959
	projects	Total (acres)	or more projects (acres)	Projects reporting	Acres	Projects reporting	Acres
All projects.	915	8,457,799	2,602,635	835	7,425,144	116	1,032,655
Drains owned by one landowner	526	810,903	633,143	475	742,851	67	68,052
Cooperative or mutual drains	235	309,784	220,164	213	244,786	26	64,998
Legally organized public drains	154	7,337,112	1,749,328	147	6,437,507	23	899,605

State Table 4.-DRAINAGE PROJECTS, 1960,

		Area drained for agricul		Area by period drainage was established					
Year of organization	Number of projects		Served by two	Befor	e 1950	Area added	1950-1959		
	projects	Total (acres)	or more projects (acres)	Projects reporting	Acres	Projects reporting	Acres		
All projects.	915	8,457,799	2,602,635	835	7,425,144	116	1,032,65		
1950-1959	307	1,521,116	364,792	227	574,051	99	947,06		
Prior to 1950	608	6,936,683	2,237,843	608	6,851,093	17	85,59		

PROJECTS, 1960, BY SIZE

		0-1959	nstalled, 195	nlurged, or is	onstructed, e	New works			1950-1959	and services,	rainage works	Cost of d
other		Fung	nd dikes	Levees a	red drains	file or row	tches	(pen d	works	For new	tal	To
projec report	Number	Frojects reporting	Length miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Frojects reporting	Dellar:	Projects reporting	Dollars	Projects reporting
	91	45	215.2	34	0.1	1	8,202.7	562	24,432,591	576	45,796,344	753
	18	11	14.3	7			1,302.3	238	940,607	242	1,925,457	296
	27	15	52.7	10	0.1	1	1,539.3	175	1,842,346	180	3,913,099	220
	23	12	62.3	8			811.4	74	1,791,698	77	4,187,877	104
	1	1	5.8	2			31.7	9	870,357	10	2,385,162	19
	21	5	44.0	3			245.5	15	1,161,952	16	2,799,965	41
			28.0	2			473.5	16	2,705,867	16	3,481,859	35
	1	1	0.1	1			799.6	13	3,441,239	13	5,649,731	15
			8.0	1			2,999.4	22	11,678,525	22	21,453,194	123

BY TYPE OF ORGANIZATION

Cost of d	rainage works	and services,	1950-1959			'lew torks	onstructed, e	mlorged, or i	nstalled, 195	50-1959			
To	tal	For new	ork	pen d	itches	Tile or rower	red druins	Levees and dikes		Fumps		Other,	
Projects reporting	Dollars	Frojects reporting	Pollars	Froject reporting	Length (miles)	Projects reporting	Lengta (miles	Projects reporting	Length (miles)	Frojects reporting	Number	projects reporting	
753	45,796,344	576	24,432,591	562	8,202.7	1	0.1	34	215.2	45	91	16	
448	8,115,096	358	2,749,601	352	3,329.3			29	174.3	34	79	4	
167	755,852	142	608,543	142	412.6					1	2	1	
138	36,925,396	76	21,074,447	68	4,460.8	1	0.1	5	40.9	10	10	11	

BY YEAR OF ORGANIZATION

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959									
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Fumps		Other,	
Projects reporting	Dollars	Frojects reporting	Dollars	Projects reporting	Length (mailes)	Projects reporting	Length (miles)	irojects reporting	Length (miles)	Frojects reporting	Number	projects reporting	
753	45,796,344	576	24,432,591	562	8,202.7	1	0.1	34	215.2	45	91	16	
306	10,912,946	299	8,412,567	295	3,120.8	1	0.1	g	72.0	10	12	7	
447	34,883,398	277	16,020,024	267	5,081.9			25	143.2	35	79	9	

Parish Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959 [See text for comparability of 1960 and 1950 data]

	Item and Consus year	The State	Acadia	Allen	Ascension	Assumption	Avoyelles	Bossier	Caddo
	AREA								
1	Approximate land areaacres 1960	28,867,840	423,680	496,000	192,000	228,480	528,640	536,960	568,320
2	Land in farmsacres 1959	10,347,328	338,824	149,993	89,755	94,831	229,613	232,423	268,970
а	Drainage projectsnumber 1960	915	47	13	22	29	32	31	26
4	1950	922	52	7	8	8	24	15	16
5	Total area in drainage projects 1	9,089,516	423,680	74,602	142,232	61,002	380,000	119,080	170,000
6	1950	12,161,665	423,680	36,742	101,784	34,215	528,640	101,010	104,041
7	Area not used for agriculture or not drained acres served 1980	1,978,892	2,500	1,490	4,700	1,900	91,000	17,760	18,000
6	Net area drained and used for agriculture acres served 1960	7,110,624	421,180	73,112	137,532	59,102	289,000	101,320	152,000
9	Dramage established before 1950 acres served 1960	6,144,937	421,180	34,279	137,532	59,102	221,160	101,320	152,000
10	Area added, 1950-1959 acres served 1960	965,687		38,833			67,840		
11	Area served by two or more projects acres served 1960	1,255,460	273,766	7,653	21,353	9,605	33,293	35,614	28,153
	PROJECTS, 1960, BY TYPE OF ORGANIZATION								
12	Drains owned by one landowner number of projects	526	1	1	19	19	17	25	25
13	acres served ²	810,903	598	620	19,853	28,272	21,088	32,144	28,153
14	Cooperative or mutual drainsnumber of projects	235	34	11	1	6	14	4	
15	acres served ² .,	309,784	58,043	46,486	1,500	8,878	12,205	4,230	
16	Legally organized public drains number of projects	154	12	1	2	4	1	2	1
17	acres served 2	7,337,112	695,356	33,659	137,532	31,557	289,000	100,560	152,000
	PROJECTS, 1960, BY YEAR STARTED								
18	1950-1959	307	17	11	5	7	12	6	2
19	acres served ²	1,521,116	33,766	46,486	4,976	8,090	12,483	4,737	1,234
20	Prior to 1950number of projects	608	30	2	17	22	20	25	24
21	acres served ²	6,936,683	720,231	34,279	153,909	60,617	309,810	132,197	178,919
	DRAINAGE OPERATIONS, 1950-1959 ⁵								
22	Cost of drainage works and services projects reporting	753	36	12	22	27	15	29	26
23	dollars	45,796,344	2,465,655	101,916	1,211,916	802,477	721,985	1,003,759	958,597
24	New drainage works constructed, enlarged, or installed	576	19	11	14	13	15	19	7
25	dollars	24,432,591	1,315,294	80,932	541,362	132,718	275,545	344,405	607,897
26	Open ditchesprojects reporting	562	19	11	14	13	15	18	7
27	length, miles	8,202.7	223.6	33.4	270.8	197.9	127.2	119.0	65.0
26	Tile or covered drainsprojects reporting	1							
29	length, miles	0.1							
30	Levees or dikesprojects reporting	34				2		3	1
31	longth, miles	215,2				9.0		13.3	0.4
32	Pumpeprojects reporting	45				4		2	
33	number of pumps	91				4		2	
34	Other (see text)	16						2	1
35	Cost of maintenance, operation, repair, and administrationprojects reporting	490	18	1	22	23	1	28	24
36	dollars	21,363,753	1,150,361	20,984	670,554	669,759	446,440	659,354	350,700
		I	II						

*Land served by two or more projects counted only once.
*Acres served by two projects are included for each project. See text.
*Pincludes projects taken over by another project prior to 1960. See text.

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Parish Table 1. - DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

AMEA Approximate land uses.	East Carroll 275,840 179,002 45 17 231,000 276,480 33,000 198,000 62,731
Approximate land area. Approximate land ar	179,002 45 17 231,000 276,480 33,000 198,000
Land in faress	179,002 45 17 231,000 276,480 33,000 198,000
Desanages projects	45 17 231,000 276,480 33,000 198,000
Total area in drainage projects	17 231,000 276,480 33,000 198,000
Total area in drainage projects	231,000 276,480 33,000 198,000
1860	276,480 33,000 198,000
Area not used for agriculture or not drained acres served 1960 138,160 25,800 48,000 23,500 19,640 100,646 Not area drained and used for agriculture acres served 1960 232,644 1,830 102,991 8,644 11,288 19,840 57,933 10 Area added, 1980-1989 acres served 1960 12,480 52,527 14,156 894 140,712 42,713 Area served 1970 or more projects acres served 1960 4,742 2,819 2,700 33,353 1,800 PRICECTS, 1960, BY TYPE OF ORGANIZATION 6 4 14 1 20 1 acres served 1970 1,800 11 acres served 3 2 3 7 7 1,800 11 acres served 3 2 3 1 6 14 10 10 10 10 10 10 10 10 10 10 10 10 10	33,000 198,000 198,000
Not area druned and used for agriculture	198,000 198,000
Dramage established before 1950 acrees served 1960 232,644 1,830 102,991 8,844 11,288 19,840 57,933 10 Area saded, 1950-1959 acrees served 1960 4,742 2,819 2,700 333,353 1,800 1,	198,000
10 Area added, 1950-1959	
11 Area served by two or more projects	
PROJECTS, 1960, BY TYPE OF ORGANIZATION 12 Drams owned by coe landowner	62,731
Drains owned by one landowner	
13	
14 Cooperative or mutual drains	35
15 acres served 3	49,895
16 Legally organized public draws number of projects 8 1 5 2 1 6 17 nacres served ² 241,142 53,021 54,200 164,000 19,840 100,646 PROJECTS, 1960, BY YEAR STARTED 16 1950-1959 number of projects 5 5 4 1 12 5 19 number of projects 9 2 18 7 10 1 2 20 number of projects 9 2 18 7 10 1 2 21 nacres served ² 75,906 1,830 113,868 8,844 13,247 19,840 14,486 DRAINAGE OPERATIONS, 1950-1959 ³ 22 Cost of dramage works and services 9 5 17 6 21 1 7 23 dollars 332,199 65,751 285,675 15,918 973,189 16,921 1,376,291 24 New drainage works constructed, enlarged, or installed projects reporting 6 5 16 5 21 1 6	9
17 acres served 2. 241,142 53,021 54,200 164,000 19,840 100,646 PROJECTS, 1960, BY YEAR STARTED 16 1950-1959 anumber of projects 5 5 4 1 12 5 19 acres served 2. 173,960 55,346 5,979 894 175,045 87,960 20 Prior to 1950 number of projects 9 2 18 7 10 1 2 21 acres served 2. 75,906 1,830 113,868 8,844 13,247 19,840 14,486 DRAINAGE OFERATIONS, 1950-1959 2 22 Cost of drainage works and services projects reporting 9 5 17 6 21 1 7 23 dollars 332,199 65,751 285,675 15,918 973,189 16,921 1,376,291 New drainage works constructed, enlarged, or installed projects reporting 6 5 16 5 21 1 6	13,436
PROJECTS, 1960, BY YEAR STARTED 16 1950-1959	1
16 1950-1959	198,000
16 1950-1959	
19	15
Prior to 1960	17.836
22 Cost of dramage works and services	30
DRAINAGE OPERATIONS, 1950-1959* 22 Cost of drainage works and services	243,495
22 Cost of drainage works and services	,
23 dollars 332,199 65,751 285,675 15,918 973,189 16,921 1,376,291 24 New drainage works constructed, enlarged, or installed	39
New drainage works constructed, enlarged, or installed	537,931
or installed	331,332
200 000 000 000 000 000 000 000 000 000	36
25 dollars 289,731 65,751 243,290 11,491 973,189 8,837 888,291	249,343
26 Open ditches	36
27 length, miles 25.1 49.1 81.6 13.7 538.8 9.0 55.8	320.9
28 Tile or covered drains	
29 length, miles	
30 Lovees or dikes	•••
31 length, mules 63.1	
32 Pumpe	***
33 number of pumps	
34 Other (see text)	
35 Cost of maintenance, operation, repair, and administration	34
36 dollars 42,468 42,385 4,427 8,084 488,000	

land served by two or more projects counted only once.
Acres served by two projects are included for each project. See text.
Includes projects taken over by another project prior to 1960. See text.

Parish Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

AREA 1 Approximate land area	141,672 4 31 181,120 181,120 4,320 176,800 176,800
2 Lad in farms	141,672 4 31 181,120 181,120 4,320 176,800 176,800
3 Drainage projects	4 31 181,120 181,120 4,320 176,800 176,800
1950 74 5 17 3 5 8	31 181,120 181,120 4,920 176,800
5 Total area in drainage projects	181,120 181,120 4,320 176,800
1980 1380	181,120 4,320 176,800
Area not used for agriculture or not drained acres served 1960 1,600 46,720 39,000 137,920 87,632 17,568 Not area drained and used for agriculture acres served 1960 137,188 364,800 29,000 150,000 86,000 3,500 220,355 Drainage established before 1950 acres served 1960 14,971	4,320 176,800 176,800
Net area drained and used for agriculture acres served 1980 137,188 364,800 29,000 150,000 86,000 3,500 220,358	176,800 176,800
Drainage established before 1950	176,800
Area actions projects	
Area served by two or more projects	
PROJECTS, 1960, BY TYPE OF ORGANIZATION Drains owned by one landowner	1
Drains owned by one landowner	4,985
a cres served 9,709 5,093 27,588 19,72 Cooperative or mutual drains number of projects 17 11 2 2 1 acres served 14,791 12,257 2,000 1,240 26,93 Legally organized public drains number of projects 14 1 1 4 1 2 1 acres served 122,668 364,800 29,000 209,192 86,000 3,500 187,73	
4 Cooperative or mutual drains number of projects 17 11 2 2 1 1 2 2 1 5 acres sen cel 2 14,791 12,257 2,000 1,240 26,93 8 Legally organized public drains number of projects 14 1 1 4 1 2 1 1 7 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3
5 acres served 14,791 12.257 2,000 1,240 26,93 6 Legally organized public drains number of projects 14 1 1 4 1 2 1 7 acres served 122,668 364,800 29,000 209,192 86,000 3,500 187,73	4,985
8 Legally organized public drains	
7 acres served 122,668 364,800 29,000 209,192 86,000 3,500 187,73	
	. 1
PROJECTS, 1960, BY YEAR STARTED	176,800
8 1950-1959	
acres served ² 16,466 6,625 23,341 1,000 106,53	
00 Prior to 1950	. 4
1 acres served ² 130,702 375,525 31,000 209,192 91,487 2,500 127,86	181,785
DRAINAGE OPERATIONS, 1950-1959 ³	
2 Cost of ciningge works and servicesprojects reporting 21 10 3 4 27 2 2	. 1
dollars 513,088 3,057,162 24,745 2,114,286 1,775,479 64,735 888,12	1,292,537
44 New drainage works constructed, enlarged, or installed	1
dollars 134,191 2,057,162 12,245 1,850,000 1,175,314 801,01	561,049
6 Open ditches	1
r leagth, miles 45.8 250.7 20.4 163.9 682.4 84.	406.7
8 Tile or covered drums	
length, miles	
0 Levees or dikes	
length, miles 17.0 0.1 6.	
2 Pumpe	
a number of pumps	
4 Other (see text)	
5 Cost of maintonance, operation, repair, and administration	
dollars 178,897 1,000,000 11,900 264,286 600,165 64,735 87,11	

Land served by two or more projects counted only once.
Agrees served by two projects are included for each project. See text.

Includes projects taken over by another project prior to 1960. See text.

Parish Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

=				July of 1900 Bild (1	1				
	Item and Census year	Lafourche	Livingston	Madison	Murehouse	Natchitoches	Orleans	Ouschita	Plaquemines	Pointe Coupee
	AREA									
1	Approximate land areaacres 1960	740,480	425,600	423,680	512,640	827,520	127,360	408,320	629,760	360,960
2	Land in farmsacres 1959	236,254	66,774	206,893	210,251	268,776	7,487	122,821	39,284	233,263
3	Drainage projectsnumber 1980	27	1	24	24	38	1	5	7	58
4	1950	1	8	8	11	30	1	2	4	12
5	Total area in drainage projects 1	317,000	425,600	292,580	200,700	248,200	11,500	1.81,680	30,710	266,960
6	1950	740,480	26	423,680	514,560	153,200	11,500	410,880	629,760	360,960
7	Area not used for agriculture or not drained acres served 1960	75,000	297,600	68,600		2,560	10,315	45,400	12,310	16,000
6	Not area drained and used for agriculture acres served 1960	242,000	128,000	223,980	200,700	245,640	1,185	136,280	18,400	250,960
9	Drainage established before 1950 acres served 1960	242,000		222,900	200,700	158,509	1,185	136,280	18,400	250,960
10	Area added, 1950-1959 acres served 1960		128,000	1,000		87,131				
11	Area served by two or more projects acres served 1260	66,553		33,894	22,935	46,564		3,688		96,925
		,		.,	. , ,	,		3,000		,,,,,,
	PROJECTS, 1960, BY TYPE OF ORGANIZATION									
12	Drains owned by one landowner number of projects	20		20	9	31		3		56
13	acres served ² , .	56,002		33,607	9,290	42,959		3,688		81,925
14	Cooperative or mutual drains	1		3	14	4				•••
15	acres served ²	700		2,687	13,645	3,605				
16	Legally organized public drains number of projects	6	1	1	1	3	1	2	7	2
17	acres served ²	251,851	128,000	221,580	200,700	245,640	1,185	136,280	18,400	265,960
	THO THOMAS ASSAULT IN COLUMN D									
	PROJECTS, 1960, BY YEAR STARTED									
	1950-1959	1	1	11	6	6	• • • •	2	4	
19	acres served*	800	128,000	7,965	9,085	98,610		2,198	10,746	
	Prior to 1950number of projects	26	•••	13	18	32	1	3	3	58
21	acres served ²	307,753		249,909	214,550	193,594	1,185	137,770	7,654	347,885
	DRAINAGE OPERATIONS, 1950-1959									
22	Cost of drainage works and servicesprojects reporting	29	1	14	24	35	1	4	7	49
23	dollars	2,018,136	1,352,689	389,003	969,218	532,451	502,748	486,041	2,812,510	1,578,914
24	New drainage works constructed, enlarged,									
	or installedprojects reporting	13	1	14	11	28	1	4	7	43
25	dollars	263,789	1,127,689	190,883	436,069	343,012	150,000	314,241	1,884,500	1,085,159
26	Open ditchesprojects reporting	11	1	14	11	28	1	3	1	43
27	length, miles	62.7	335.5	153.6	134.8	216.2	1.0	90.6	4.3	685.4
26	Tile or covered drainsprojects reporting								1	
29	length, miles	•••	•••					• • •	0.1	
30	Levees or dikes	1				2			1	
31	length, miles	0,1	• • •			19.0			4.8	
32	Pumpsprojects reporting	4						1	7	
33	number of pumps	11						1	7	
34	Other (see text)					1			7	1
35	Cost of maintenance, operation, repair, and administration	28	1	1	23	29	1	2	7	36
36	dollars	1,754,347	225,000	198,120						
00	oonars	4,174,241	223,000	190,120	533,149	189,439	352,748	171,800	928,010	493,755

Land served by two or more projects counted only once.

Agrees served by two projects are included for each project. See text.

Includes projects taken over by another project prior to 1960. See text

Parish Table 1. – DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959 [See text for comparability of 1960 and 1950 data]

=				ility of 1960 and 19	, out and					
	Item and Consus year	Rapides	Red River	Richland	St. Bernard	St. Charles	St. James	St. John the Baptist	St. Landry	St. Martin
	AREA									
1	Approximate land areaacres 1980	842,240	264,320	368,640	326,400	194,560	159,360	144,000	595,200	461,440
2		261,111	150,355	253,558	12,797	43,901	52,785	32,677	310,826	97,751
3	Drainage projectsnumber 1960	25	8	12	2	9	26	10	31	8
4	1950	4	4	7	3	,	1	7	40	2
	Total area in drainage projects	215,000	91,000	368,640	74,000	41,427	159,360	12,727	307,639	187,648
	1950	850,560	91,000	368,640	226,895	32,842	75	13,509	266,099	461,440
7	Area not used for agriculture or not drained acres served 1960	17,900		48,896	69,600		77,360			
	Net area drained and used for agriculture acres served 1960	197,100	91,000	319,744	4,400	41,427	82,000	12,727	200 420	37,376
۰		197,100	91,000						307,639	150,272
9	Drainage established before 1950 acres served 1960			319,744	4,400	34,777	3,318	9,448	254,465	150,272
10	Area edded, 1950-1959				***	6,650	78,682	3,279	53,174	•••
11	Area served by two or more projects acres served 1960	24,922	11,950	8,794	•••	3,168	23,654		53,547	57,398
	PROJECTS, 1960, BY TYPE OF ORGANIZATION									
12	Drains owned by one landowner number of projects	23	5	2		5	24	9	6	2
18	acres served ²	24,297	10,700	2,048		6,818	23,654	9,654	7,457	3,913
14	Cooperative or mutual drainsnumber of projects	1	1	9			1		6	1
15	acres served ²	625	1,250	6,746			2,957		2,975	1,500
16	Legally organized public drains number of projects	1	2	1	2	4	1	1	19	
17	acres served ²	197,100	91,000	319,744	4,400	37,777	82,000	3,073	351,254	220,718
							,	,	,	, ,
	PROJECTS, 1960, BY YEAR STARTED		ļ							
18	1950-1959 number of projects	15	2	4		3	22	3	6	
19	acres served ² ,.	15,175	4,600	2,993		3,568	105,293	3,279	55,062	
20	Prior to 1950number of projects	10	6	8	2	6	4	7	25	8
21	acres served ²	206,847	98,350	325,545	4,400	41,027	3,318	9,448	306,624	226,131
	DRAINAGE OPERATIONS, 1950-1959									
22	Cost of drainage works and services	22	7	5	1	8	26	9	24	7
23	dollars	919,470	89,748	1,760,306	150,000	769,525	1,404,823	225,366	686,658	1,119,538
24	New drainage works constructed, enlarged,									
	or installedprojects reporting	21	6	5	1	5	24	7	7	3
25	dollars	425,468	48,261	410,306	100,000	165,926	927,480	60,802	142,316	680,315
26	Open ditchesprojects reporting	21	6	5	1	5	24	7	7	3
27	length, miles	167.1	80.0	129.2	8.0	149.9	363.8	116.6	90.6	270.6
28	Tile or covered drains,projects reporting									
29	length, miles									
30	Levees or dikesprojects reporting									1
a 1	length, miles									4.0
32	Pumpeprojects reporting									1
88	number of pumpe									2
34	Other (see text)									1
35	Cost of maintenance, operation, repair, and		_			_			,	
36	administrationprojects reporting	494,002	/1 /00	1 360 000	1 1	7	23	9 .	17	6
	oottars	494,002	41,487	1,350,000	50,000	603,599	477,343	164,564	544,342	439,223

¹Land served by two or more projects counted only once.

²Acres served by two projects are included for each project. See text.

³Includes projects taken over by another project prior to 1960. See text.

Parish Table 1. –DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

		[.00	text for comparabilit	y or 1860 and 1930	OBLE				
	Item and Census year	St. Mary	Tangipahoa	Tensas	Terrebonne	Vermilion	West Baton Rouge	West Carroll	West Feliciana
	AREA					_			
1	Approximate land area	387,200	513,920	398,720	890,240	783,360	128,000	227,840	262,400
2	Land in farmsacres 1959	139,947	184,455	245,166	100,537	386,801	54,057	183,945	137,984
3	Drainage projectsnumber 1960	15	3	30	11	57	10	44	1
4	1950	2	89	23	3	215	1	4	
5	Total area in drainage projects	260,501	291,192	125,958	194,000	407,199	77,154	227,840	15,000
6	1950	387,200	122,323	49,768	890,240	480,256	128,640	227,840	
7	Area not used for agriculture or not drained acres served 1960	179,000	64,352	41,140	64,000	44,652	23,269	20,000	3,000
8	Net area drained and used for agriculture acres served 1960	81,501	226,840	84,818	130,000	362,547	53,885	207,840	12,000
9	Dramage established before 1950 acres served 1960	81,501	121,855	33,152	130,000	360,797	53,885	207,840	12,000
10	Area added, 1950-1959 acres served 1960		104,985	51,666		1,750			
11	Area served by two or more projects acres served 1960	17,282		8,144	24,151	58,788	12,493	31,896	
	PROJECTS, 1960, BY TYPE OF ORGANIZATION								
12	Drains owned by one landowner	14		23	10	29	9		1
13	acres served ²	17,783		27,297	24,151	60,108	12,493		12,000
14	Cooperative or mutual drainsnumber of projects			4		12		43	
15	acres served ²			3,336		14,842		31,896	
16	Legally organized public drainsnumbor of projects	1	3	3	1	16	1	1	
17	встез served ²	81,000	226,840	62,329	130,000	348,345	53,885	207,840	
	PROJECTS, 1960, BY YEAR STARTED								
16	1950-1959 number of projects	6	2	13		7		39	
19	acres served ²	3,852	182,840	65,622		9,371		29,296	
20	Prior to 1950number of projects	9	1	17	11	50	10	5	1
21	acres served ² .	94,931	44,000	27,340	154,151	413,924	66,378	210,440	12,000
	DRAINAGE OPERATIONS, 1950-1959 5								
22	Cost of drainage works and services projects reporting	15	2	22	11	45	10	40	1
23	dollars	1,599,547	1,485,598	370,989	1,612,942	1,269,741	807,070	382,976	100,000
24	New drainage works constructed, enlarged,						8	40	,
0.5	or installedprojects reporting	13 476,800	934,598	364,369	91,814	701,786	350,017	125,343	12,000
25 26	Open ditches	11	2	22	71,014	36	8	40	12,000
27	length, miles	221.7	167.8	323.4	25.3	341.8	165.9	88.9	22.7
26	Tile or onvered drains		207.0	32344					
29	length, miles			***					
30	Levees or dikes	1				12			
31	length, miles	2.0		***		75.6			
32	Pumpsprojects reporting	3			***	16			1
33	number of pumps	5				47			4
34	Other (see text)								
35	Cost of maintenance, operation, repair, and								
	administrationprojects reporting	15	1	2	11	30	10	1	1 22 222
36	dollars	1,122,747	551,000	6,620	1,521,128	567,955	457,053	257,633	88,000

Land served by two or more projects counted only once.

Acres served by two projects are included for each project. See text.

Includes projects taken over by another project prior to 1960. See text.

State Table 1.-DRAINAGE PROJECTS-NUMBER, AREA, COST, AND WORKS, 1920 TO 1960

[See text for comparability of data]

[N00	text for comparability of dat	18]			
Item	1960 Census	1950 Gensus	1940 Census	1930 Cenaul	1920 Genaus
AREA					
Approximate land area	6,319,360	6,327,840	6,327,680	6,362,240	6,362,240
Land in farms	3,456,769	0,045,529	4,197,820	4,374,398	4,757,999
Drainage projects	138	9.5	126		
Total area in drainage projects	353,837	123,815	143,357		
Area not used for agriculture or not drained	2,390	NA	Alf		
Net area drained and used for agriculture	350,447	1LA	¹ 181,891		
Drainage established 10 years or more before Census date	341,631	Ast	Al1		
Drainage established within 10 years of Census dateacros served	8,816	ALI	AM		
Area served by two or more projects	44,541	41,253	7,585		
PROJECTS BY TYPE OF ORGANIZATION					
Anins owned by one landowner					
acres served			• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	
Cooperative or mutual drains				• • •	***
acres served	14,183	4,333	•••	•••	•••
Legally organized public drains	14,163	4,323	na na		•••
Beres served	382,60	319,482	183,337		
scres served	302,003	319,46.	163,337	***	•••
PROJECTS BY YEAR STARTED					
Started 10 years or more before Census date	110	73	NA.		
acres served	360,432	266,290	57,472		
Started within 10 years of Census datenumber of projects	22	20	NA		
scres served	36,354	57,525	125,865	***	
OPERATIONS, 10-YEAR PERIOD PREVEDING CENSUS DATE					
Cost of drainage works and services projects reporting	29	28	NA.		
dollars	409, 218	183,309	NA NA		•••
New drainage works constructed, enlarged, or installed	23	232	NA NA		•••
cost, doilars	393,798	2129,578	1IA		
Open ditches. projects reporting.	23	26	NA.		
leagth, miles	137.2	138	NA.		• • • • • • • • • • • • • • • • • • • •
Tile or covered drains. projects reporting.			NA.		
length, miles			NA NA		
Levees or dikesprojects reporting			IIA.		
length, miles			NA NA		
Pumps		ı.a.	NA AN		
number of pumps		NA.	P.A.		
Other (see text)		NA.	IJA		
Cost of maintenance, operation, repair, and administration projects reporting	g	NA.	IIA.		
dollars	15,600	53,731	NA NA		
		,			
STATUS ON CENSUS DATE		ļ			
Capital investment	NA.	NA.	43,914		
Physical works: Open ditches. length, miles.	NA NA	AM	461.3		
Tile drains length, miles	NA.	MA			
Levees and dikeslength, miles	NA.	:ia			
Pumping unitsnumber of units	NA.				
	ł	I	1		

NA Not available.

Not fully comparable. See text.

Cost of new works for lands not previously drained.

State Table 2.-DRAINAGE

			ed and used lture, 1960	Area by period drainage was established						
Size of project (Based on area of agricultural land in project)	Number of projects		Served by two	Befor	e 1950	Area added 1950-1959				
		Total (acres)	or more projects (acres)	Projects reporting	Acres	Projects reporting	Acres			
All projects.	138	396,786	90,880	128	387,970	10	8,816			
500 to 999 scres	45	31,330	8,155	38	26,788	7	4,54			
1,000 to 1,999 acres	36	52,090	9,863	33	47,816	3	4,27			
2,000 to 4,999 acres	41	127,218	14,970	41	127,218					
5,000 to 9,999 acres	13	89,562	21,173	13	89,562					
10,000 to 19,999 acres	2	33,541	22,943	2	33,541					
20,000 to 49,999 acres										
50,000 to 99,999 acres	1	63,045	13,776	1	63,045					
100,000 or more acres										

State Table 3.-DRAINAGE PROJECTS, 1960,

		Area draine for agricul		Area	by period drains	ge was establishe	1	
Type of organization	Number of projects	Total	Served by two	Before	1950	Area added 1950-1959		
	2-0-1	(acres)	or more projects (acres)	Projects reporting	Acres	Projects reporting	Acres	
All projects	138	396,786	90,880	128	387,970	10	8,81	
Drains owned by one landowner.		***						
Cooperative or mutual drains	9	14,183	2,234	6	12,349	3	1,83	
Legally organized public drains	129	382,603	88,646	122	375,621	7	6,98	

State Table 4.-DRAINAGE PROJECTS, 1960,

		Area draine for agricul		Are	a by period drain	age was establish	ed	
Year of organization	Number of projects		Served by two	Befor	e 1950	Ares added 1950-1959		
	projects	Total (scres)	or more projects (acres)	Projects reporting	Acres	Projects reporting	Acres	
All projects.	138	396,786	90,880	128	387,970	10	8,81	
1950-1959	22	36,354	3,152	12	27,538	10	8,81	
Prior to 1950	116	360,432	87,728	116	360,432			

PROJECTS, 1960, BY SIZE

		0-1959	nstalled, 195	nlarged, or i	constructed, e	New works			1950-1959	and services,	rainage works	Cost of di
Other,	ps	Pump	nd dikes	Levees a	ered drains	Tile or cov	itches	Open d	works	For new	tal	Tot
projects reporting	Number	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting
 							137.2	23	393,798	23	409,398	29
 							52.2	13	98,843	1.3	103,800	16
							22.0	4	84,972	4	88,415	6
 							29,6	4	44,643	4	50,243	4
 							33.4	2	165,340	2	166,940	3

BY TYPE OF ORGANIZATION

Cost of d	rainage works	and services,	1950-1959			New works	constructed, e	enlarged, or i	nstalled, 19	50-1959		
To	tal	For new	works	Open d	itches	Tile or cover	red drains	Levees a	nd dikes	Pump	s	Other,
rojects reporting	Dollars	Frojects reporting	Dollars	Frojects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number	projects reporting
29	409,398	23	393,798	23	137.2							
7	30,935	5	26,050	5	16.7							
22	378,463	18	367,748	18	120.5							

BY YEAR OF ORGANIZATION

			0-1959	nstalled, 195	1950-1959	and services,	drainage works	Cost of d					
r,	Other,	The state of the s									For nev	otal	To
	project reporti	Number	Projects reporting	Length (miles)	Frojects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Dollars	Frojects reporting	Dollars	Projects reporting
								137.2	23	393,798	23	409,398	29
								111.7	17	327,772	17	335,229	21
								25.5	6	66,026	6	74,169	8
									25.5	6 25.5	66,026 6 25.5	6 66,026 6 25.5	74,169 6 66,026 6 25.5

County Table 1. - DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

Item and Census year	The State	Caroline	Dorchester	Queen Annes	Somerset	Wicomico	Worcester
		041042310	201010001		DOME 1 3 6 0	WICOLITES	"Orces ber
AREA							
Approximate land area	6,319,360	204,800	371,200	238,720	212,480	243,200	309,120
	3,456,769	156,771	157,050	182,772	85,528	131,363	146,847
3 Drainage projectsnumber 1960	1138	35	27	33	28	14	9
4 1950	193	27	19	23	20	8	1
5 Total area in drainage projects ² acres served 1960	353,837	56,076	52,268	66,921	73,821	55,430	49,321
	323,815 3,390	50,938	43,922	64,183	64,118	52,429	48,225
	350,447	67.000	62 249		2,452		938
Net area drained and used for agriculture acres served 1960 Drainage established before 1950 acres served 1960		56,076	52,268	66,921	71,369	55,430	48,383
	341,631	53,691	52,268	65,009	70,210	53,166	47,287
·	8,816	2,385		1,912	1,159	2,264	1,096
1 Area served by two or more projects acres served 1960	44,541	8,365	1,575	20,825	***	13,776	
PROJECTS, 1980, BY TYPE OF ORGANIZATION							
2 Drains owned by one landowner number of projects							
3 acres served ³ , .							
4 Cooperative or mutual drainsnumber of projects	9				5	4	
5 acres served ³ .	14,183				9,175	5,008	
6 Legally organized public drains number of projects	¹ 129	35	27	33	23	10	g
acres served ³	382,603	64,441	53,843	89,544	62,194	64,198	48,383
PROJECTS, 1960, BY YEAR STARTED							
8 1950-1959	22	3		5	5	4	
g acres served 3	36,354	3,102		3,847	9,175	2,764	17,466
Prior to 1950number of projects	1116	32	27	28	23	10	4
scres served ³	360,432	61,339	53,843	85,697	62,194	66,442	30,917
DRAINAGE OPERATIONS, 1950-1959 ⁴							
2 Cost of drainage works and services	29	7		5	6	7	
dollars	409,398	107,603		65,956	46,335	24,541	164,963
New drainage works constructed, enlarged,							
or installedprojects reporting	23	6		5	4	4	4
dollars	393,798	107,360		65,956	42,150	13,369	164,963
6 Open ditches projects reporting	23	6		5	4	4	4
7 longth, miles	137.2	37.1		18.2	14.6	14.8	52.5
8 Tile or covered drainsprojects reporting							
longth, miles				***			
0 Levees or dikes							•••
length, miles			• · ·		***		
Pumpeprojects reporting				***			
number of pumps						• • • •	
4 Other (see text)							
5 Cost of maintenance, operation, repair, and administrationproject. reporting	8	1			2	5.	
6 dollars	15,600	243			4,185	11,172	
					,		

An intercounty project is counted in each county in which a part is located. It is counted only once in the State total.

Land served by two or more projects counted only once.

Areas served by two projects are included for each project. See text.

Includes projects taken over by unother project prior to 1960. See text.

MICHIGAN 193

State Table 1.-DRAINAGE PROJECTS-NUMBER, AREA, COST, AND WORKS, 1920 TO 1960

|See text for comparability of data |

	sect to comparating of dis				
ltem	1960 Census	1 (5) 1 (1) (48	1940 Census	1930 Census	1920 Census
AREA					
Approximate land area	36,492,160	36,494,080	36,494,080	36,787,200	36,787,200
Land in farms	14,782,507	17,269,992	18,037,995	17,118,951	19,032,961
Drainage projects	, , ,	54	¹ 7,692	NA.	N.
Fotal area in drainage projects	10,208,735	10,194,439	8,978,386	9,180,851	9,729,17
Area not used for agriculture or not drained	331,686	NA.	NA.	NA.	N.
Net area drained and used for agriculture	9,877,049	NA.	27,796,979	28,826,265	N.
Draunage established 10 years or more before Census date	9,753,462	NA.	NA.	NA.	NJ.
Drainage established within 10 years of Census date	123,587	AM	NA.	NA.	N
Area served by two or more projects	23,279	NA.	7,091,887	5,851,841	6,037,30
	,	100	7,051,057	3,032,341	
PROJECTS BY TYPE OF ORGANIZATION		(3)			
Trains owned by one landowner	11		NA.	NA.	N.
acres served ³ .,	7,454	(3)	7,560	21,530	22,280
Cooperative or mutual drainsnumber of projects.	21	(3)	• • • • • • • • • • • • • • • • • • • •		
acres served 3	22,724	(3)			
Legally organized public drains	54	354	NA.	NA.	N.
acres served ³	9,870,150	310,194,439	8,970,826	9,159,321	9,706,89
PROJECTS BY YEAR STARTED	1				
Started 10 years or more before Census datenumber of projects	64	NA.	NA.	NA.	N.
acres served	9,883,963	NA.	8,276,514	8,336,081	46,273,912
Started within 10 years of Census datenumber of projects	22	NA.	NA.	NA.	N.
actes served	16,365	NA.	701,872	844,770	43,435,274
OPERATIONS, 10-YEAR PERIOD PRECEDING CENSUS DATE					
Cost of drainage works and services projects reporting	79	51	NA.	NA.	NU.
dollars	37,186,074	20,235,636	NA.	NA.	N
New drainage works constructed, enlarged, or installed	67	5 37	NA.	NA.	N.
cost, dollars	4,783,366	52,556,472	N.A.	NA.	N/
Open ditches. projects reporting	64	34	NA.	NA.	N.
length, miles	974.6	554	NA.	NA.	N/
Tile or covered drains projects reporting	29	28	NA.	NA.	N.
length, miles	208.5	145	NA.	NA.	N.
Levees or dikes projects reporting	2	* * *	NA.	NA.	N.
length, miles	4.7	***	NA.	NA.	N.
Pumps projects reporting	7	NA	NA.	NA.	N.
number of pumps	15	NA.	NA.	NA.	N.
Other (see text) projects reporting	4	NA	NA.	NA.	N.
Cost of maintenance, operation, repair, and administration projects reporting	55	51	NA.	NA.	N
dollars	32,402,708	17,679,164	NA.	NA.	N.
STATUS ON CENSUS DATE					
Papital investmentdollars	NA.	NA	40,412,251	37,677,084	24,683,71
Physical works:					_
Öpen ditches. length, miles.	NA	NA.	19,608.6	17,188.5	16,023.
Tile drains length, miles	NA	NA	3,229.5	3,490.2	2,173.
Levees and dikeslength, miles	NA	NA.	13.6	34.6	33.
Pumping unitsnumber of units	NA	NA	2	3	N/

NA Not available.

1n 1940, each county drain was counted as a separate project. See text.

3All projects in 1950 included with county drains. See text.

3All projects in 1950 included with county drains. See text.

1920 figures exclude 19,828 acres for which date of organization was not reported.

20st of new works for lands not previously drained.

State Table 2.-DRAINAGE

			ed and used 1ture, 1960	Are	a by period drain	age was establishe	ed
Size of project (Based on area of agricultural land in project)	Number of projects		Served by two	Befor	re 1950	Area added	1950-1959
		Total (acres)	or more projects (acres)	Projects reporting	Acres	Projects reporting	Acres
All projects	86	9,900,328	46,558	83	9,776,741	42	123,58
500 to 999 acres	28	18,013	11,114	25	13,353	11	4,66
1,000 to 1,999 acres	5	7,085	3,765	5	7,085		
2,000 to 4,999 acres	1	4,200	600	1	4,200		
5,000 to 9,999 scres	3	22,096	8,850	3	22,096		
10,000 to 19,999 scres	2	31,169		2	31,169		
20,000 to 49,999 acres	5	184,213	1,108	5	184,213		
50,000 to 99,999 acres	5	403,485		5	403,035	1	45
100,000 or more acres	37	9,230,067	21,121	37	9,111,590	30	118,47

State Table 3.-DRAINAGE PROJECTS, 1960,

		Area draine for agricul		Area by period drainage was established					
Type of organization	Number of projects	Total	Served by two	Before	1950	Area added 1	950-1959		
	projects.	(acres)	or more projects (acres)	Projects reporting	Acres	Projects reporting	Acres		
1 All projects.	86	9,900,328	46,558	83	9,776,741	42	123,587		
Drains owned by one landowner	11	7,454	4,864	11	6,054	4	1,400		
Cooperative or mutual drains	21	22,724	18,415	18	19,234	7	3,490		
Legally organized public drains	54	9,870,150	23,279	54	9,751,453	31	118,697		

State Table 4.-DRAINAGE PROJECTS, 1960,

		Area drained for agricul		Are	by period drain	age was establish	ed
Year of organization	Number of		Served by two	Before	1950	Area added	1950-1959
	projects	Total (acres)	or more projects (acres)	Projects reporting	Acres	Projects reporting	Acres
1 All projects.	86	9,900,328	46,558	83	9,776,741	42	123,587
2 1950-1959	22	16,365	10,205	19	11,705	11	4,660
9 Prior to 1950	64	9,883,963	36,353	64	9,765,036	31	118,927

195

PROJECTS, 1960, BY SIZE

			0-1959	nstalled, 195	nlarged, or i	constructed, e	New works			1950-1959	and services,	rsinage works	Cost of d
Ī	Other,	rps	Pumps		Levees a	ered drains	Tile or cov	itches	Open d	works	For new	tal	To
	projects reporting	Number	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting
4	4	15	7	4.7	2	208.5	29	974.6	64	4,783,366	67	37,186,074	79
2	1	5	2	0.7	1	157.0	9	37.2	22	264,987	24	311,587	25
1	1	2	1	4.0	1	15.0	1	7.4	4	55,731	4	55,731	4
												1,700	1
		3	1					0.2	1	3,896	2	175,896	2
												27,983	2
								0.5	1	7,100	1	139,109	3
						0.1	1	1.0	1	19,480	1	581,023	5
1	1	5	3			36.4	18	928.3	35	4,432,172	35	35,893,045	37

BY TYPE OF ORGANIZATION

Cost of d	rsinage works	and services,	1950-1959			New works	constructed, e	enlarged, or	installed, 195	0-1959		
To	tal	For new	works	Open di	itches	tches Tile or covered drains		Levees and dikes		Pumps		Other,
Projects	Dollars	Frojects reporting	Dollars	Frojects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Frojects reporting	Number	projects reporting
79	37,186,074	67	4,783,366	64	974.6	29	208.5	2	4.7	7	15	4
9	247,500	9	222,300	8	19.2	7	154.7	1	0.7	1	4	
20	244,818	19	51,418	17	21.4	2	2.3			2	4	3
50	36,693,756	39	4,509,648	39	934.0	20	51.5	1	4.0	4	7	1

BY YEAR OF ORGANIZATION

Cost of d	rsinage works	and services,	1950-1959			New works	constructed, e	nlarged, or i	nstalled, 195	0-1959		
To	tal	For ne	w works	Open d	itches	Tile or cov	ered drains Levees and dikes		nd dikes	Pur	mps	Other,
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Frojects reporting	Length (miles)	Frojects reporting	Number	projects reporting
79	37,186,074	67	4,783,366	64	974.6	29	208.5	2	4.7	7	15	4
22	270,068	22	270,068	22	30.5	7	116.9	2	4.7	2	6	3
57	36,916,006	45	4,513,298	42	944.1	22	91.6			5	9	1

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

_			Dee sexs for com	parability of 196	O and 1850 date						
	Item and Consus year	The State	Alcona	Allegan	Alpena	Arenac	Barry	Bay	Berrien	Branch	Calhoun
	AREA										
1	Approximate land areascres 1960	36,492,160	433,280	530, 560	363,520	235,520	351,360	285,440	371,200	323,840	453,760
2	Land in farmsacres 1959	14,782,507	99,803	323,225	135,133	108,956	244,336	193,555	263,926	280,603	335,479
3	Drainage projectsnumber 1960	86	2	1		1	5	2	1	1	1
4	1956	54	1	1	1	1	1	1	1	1	1
5	Total area in drainage projects 1	10,208,735	4,200	238,017		171,868	160,862	255,634	153,185	239,504	224,464
6	1950	10,194,439	4,520	238,017	40,525	171,868	159,252	253,184	152,640	219,424	222,967
7	Ares not used for agriculture or not drained acres served 1960	331,686		920				12,320			
8	Net area drained and used for agriculture acres served 1960	9,877,049	4,200	237,097		171,868	160,862	243,314	153,185	239,504	224,464
9	Drainage established before 1950 acres served 1960	9,753,462	4,200	237,097		171,868	159,252	240,864	152,640	219,424	222,967
10	Area added, 1950-1959 acres served 1960	123,587					1,610	2,450	545	20,080	1,497
11	Area served by two or more projects acres served 1980	23,279	600				1,800	580			
	PROJECTS, 1980, BY TYPE OF ORGANIZATION										
12	Drains owned by one landowner number of projects	11									
13	acres served ²	7,454									
14	Cooperative or mutual drainsnumber of projects	21	1				4	1			
15	acres served ² ,,	22,724	600				2,770	580			
16	Legally organized public drains number of projects	54	1	1		1	1	1	1	1	1
17	acres served ²	9,870,150	4,200	237,097		171,868	159,892	243,314	153,185	239,504	224,464
	PROJECTS, 1980, BY YEAR STARTED										
16	1950-1959 number of projects	22	1				4				
19	acres served ²	16,365	600				2,770				
20	Prior to 1950number of projects	64	1	1		1	1	2	1	1	1
21	acres served ²	9,883,963	4,200	237,097		171,868	159,892	243,894	153,185	239,504	224,464
	DRAINAGE OPERATIONS, 1950-1959 8										
22	Cost of drainage works and servicesprojects reporting	79	2	1		1	5	2	1	1	1
23	dollars	37,186,074	3,550	321,663		19,673	155,892	1,119,431	637,768	675,088	565,565
24	New drainage works constructed, enlarged, or installedprojects reporting	67	1	1		1	5	1	1	1	1
25	dollars	4,783,366	1,850	10,720		3,944	78,940	502,250	13,600	128,839	48,394
26	Open ditchesprojects reporting	64	1	1		1	5	1	1	1	1
27	length, miles	974.6	1.3	7.3		1.4	20.4	132.9	3.9	35.7	13.0
26	Tile or covered drainsprojects reporting	29					1	1	1	1	1
29	length, miles	208.5					0.9	1.4	0.1	3.5	1.1
30	Levees or dikesprojects reporting	2									
a1	length, miles	4.7									
32	Pumpeprojects reporting	7						1		1	
33	number of pumps	15	•••					3		1	
34	Other (see text)	4									1
35	Cost of maintenance, operation, repair, and administration	55	1	1		1	1	2	1	1	1
36	dollars	32,402,708	1,700	310,943		15,729	76,952	617,181	624,168	546,249	517,171

land served by two or more projects counted only once.
Acres served by two projects are included for each project. See text.
Fincludes projects taken over by another project prior to 1960. See text.

County Table 1. - DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

	Item and Consus year	Сввв	Chippewa	Clare	Clinton	Eston	Genesee	Gladwin	Gratiot	Hills- dale
	AREA				•					
1	Approximate land areaacres 1960	312,320	1,011,200	366,080	365,440	362,880	411,520	321,920	362,240	384,640
2	Land in farms acres 1959	225,148	122,334	118,290	324,364	310,342	239,291	126,629	321,737	321,249
3	Drainage projectsnumber 1960	3	1	2	1	1	1	1	2	1
4	1950	1		1	1	1	1	1	1	1
5	Total area in drainage projects 1, acres served 1960	49,675	960	19,542	316,230	324,150	274,418	105,827	338,320	192,038
6	1950	49,675		22,202	315,656	323,200	272,417	117,637	335,320	188,488
7	Area not used for agriculture or not drained acres served 1960				1,220	800	13,000			
6	Net area drained and used for agriculture acres served 1960	49,675	960	19,542	315,010	323,350	261,418	105,827	338,320	192,038
9	Drainage established before 1950 acres served 1960	49,675		19,002	314,436	322,400	259,417	105,377	335,320	188,488
10	Area added, 1950-1959 acres served 1960		960	540	574	950	2,001	450	3,000	3,550
11	Area served by two or more projects acres served 1960	1,108							510	
	PROJECTS, 1960, BY TYPE OF ORGANIZATION									
12	Drains owned by one landowner number of projects	2								
13	acres served ² ,.	1,108								
14	Cooperative or mutual drainsnumber of projects		1	1					1	
15	acres served ²		960	540					510	
16	Legally organized public drains number of projects	1		1	1	1	1	1	1	1
17	acres served 2	49,675		19,002	315,010	323,350	261,418	105,827	338,320	192,038
	PROJECTS, 1960, BY YEAR STARTED									
18	1950-1959 number of projects		1	1					1	
19	acres served ²		960	540					510	
20	Prior to 1950number of projects	3		1	1	1	1	1	1	1
21	acres served ²	50,783		19,002	315,010	323,350	261,418	105,827	338,320	192,038
	DRAINAGE OPERATIONS, 1950-1959									
22	Cost of dramage works and servicesprojects reporting	3	(4)	2	1	1	1	1	2	1
23	dollars	181,203	(4)	22,860	146,155	1,076,717	1,402,869	26,889	4,353,954	409,363
24	New drainage works constructed, enlarged, or installed	3	(4)	1	1	1	1	1	2	1
25	dollars	42,100	(4)	1,365	3,658	233,700	68,959	8,900	255,372	109,193
26	Open ditchesprojects reporting	3	(4)	1	1	1	1	1	2	1
27	length, miles	11.2	(4)	0.9	1.3	26.7	10.3	2.6	20.5	23.2
28	Tile or covered drainsprojects reporting	2				1			2	1
29	length, miles	47.5				3.2			3.4	10.9
30	Levees or dikesprojects reporting									
31	length, miles									
32	Pumpeprojects reporting									
33	number of pumps	***								
34	Other (see text)									
35	Cost of maintenance, operation, repair, and administration	3		1	1	1	1	1	1	1
36	dollars	139,103		21,495	142,497	843,017	1,333,910	17,989	4,098,582	300,170
				,	- 2.5477	5.5,021	.,,	27,709	-,000,002	500,170

Land served by two or more projects counted only once.
Acres served by two projects are included for each project. See text.
Includes projects taken over by another project prior to 1960. See text.
Included in State total only.

County Table 1. –DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

_		į, se	To to to compared	inty of 1960 and 19	550 OMG					
	Item and Census year	Huron	Ingham	Ionia	Iosco	Isabella	Jackson	Kalamazoo	Kent	Lapeer
	AREA									
1	Approximate land areaacres 1960	526,080	357,760	368,000	350,080	366,080	451,200	362,880	551,680	420,480
2	Land in farms	467,163	282,030	306,679	84,126	271,007	305,839	223,062	311,605	321,801
3	Drainage projectsnumber 1960	1	3	1	1	2	1	1	1	6
4	1950	1	1	1	1	1	1	1	1	1
5	Total area in drainage projects 1	386,969	315,197	209,387	92,716	233,344	156,200	64,328	190,137	308,541
6	1950	378,169	330,824	209,387	96,666	227,328	175,022	65,128	188,569	287,539
7	Area not used for agriculture or not drained acres served 1960					2,520	4,480		9,000	
6	Net area drained and used for agriculture acres served 1960	386,969	315,197	209,387	92,716	230,824	151,720	64,328	181,137	308,541
9	Drainage established before 1950 acres served 1960	375,520	314,997	209,387	92,266	226,088	151,020	64,328	179,569	287,539
10	Area added, 1950-1959 acres served 1960	11,449	200		450	4,736	700		1,568	21,002
11	Area served by two or more projects acres served 1960		540		•••	600				1,350
	PROJECTS, 1960, BY TYPE OF ORGANIZATION									
12	Drains owned by one landowner number of projects		1							2
13	acres served ²		800							1,400
14	Cooperative or mutual drainsnumber of projects		1			1				3
15	acres served ²		540			600				1,989
16	Legally organized public drainsnumber of projects	1	1	1	1	1	1	1	1	1
17	acres served ²	386,969	314,397	209,387	92,716	230,824	151,720	64,328	181,137	306,502
	PROJECTS, 1960, BY YEAR STARTED									
16	1950-1959 number of projects		1			1 .				2
19	acres served ²		540			600				1,170
20	Prior to 1950number of projects	1	2	1	1	1	1	1	1	4
21	acres served ²	386,969	315,197	209,387	92,716	230,824	151,720	64,328	181,137	308,721
	DRAINAGE OPERATIONS, 1950-1959 8									
	Cost of drainage works and servicesprojects reporting	1	2	1	1	2	1	1	1	6
23	dollars	1,253,451	3,103,655	367,544	20,755	442,237	695,006	215,609	377,071	430,608
24	New drainage works constructed, enlarged, or installedprojects reporting	1	2	1	1	2	1		1	6
25	dollars	210,150	140,802	3,949	19,480	51,700	67,456		17,691	124,426
26	Open ditches	1	2	1	1	2	1		1	5
27	length, miles	37.0	12.1	0.6	1.0	12,1	5.4		8.2	29.4
26	Tile or covered drainsprojects reporting	1	1,	1	1	1				1
29	length, miles	0.3	2.4	0.4	0.1	2.5				7.6
30	Levees or dikes		•••							
31	length, miles									
32	Pumps projects reporting	1								
88	number of pumps	1								
34	Other (see text)	•••								1
35	Cost of maintenance, operation, repair, and administrationprojects reporting	1	1	1	1	1	1	1	1	3
36	dollars	1,043,301	2,962,853	363,595	1,275	390,537	627,550	215,609	359,380	306,182

Liand served by two or more projects counted only once.

Acres served by two projects are included for each project. See text.

Includes projects taken over by another project prior to 1960. See text.

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

Item and Census year	Lenswee	Livingston	Macomb	Manistee	Mason	Mecosta	Midland	Missaukee	Monroe
AREA									
Approximate land area	482,560	365,440	307,840	357,120	315,520	360,320	332,800	361,600	359,68
Land in farmsacres 1959	427,353	229,492	151,229	80,398	124,653	191,324	129,644	130,922	280,74
Drainage projectsnumber 1960	1	2	2	1	1	1	1	1	
1950	1	1	1	1	1	1	1	1	i
Total area in drainage projects 1	376,988	144,437	220,960	13,767	46,461	27,725	262,507	27,525	352,56
1950	375,168	142,414	219,054	13,767	46,461	27,725	262,372	27,525	356,32
Area not used for agriculture or not drained acres served 1960		1,280	55,000	1,600	2,300		5,480	4,200	13,24
Not area drained and used for agriculture acres served 1960	376,988	143,157	165,960	12,167	44,161	27,725	257,027	23,325	339,32
Drainage established before 1950 acres served 1960	376,668	139,214	164,054	12,167	44,161	27,725	255,812	23,325	339,32
Area added, 1950-1969 acres served 1960	320	3,943	1,906				1,215		
Area served by two or more projects acres served 1960,			240						
PROJECTS, 1980, BY TYPE OF ORGANIZATION									
Drains owned by one landowner									
acres served ²									
Cooperative or mutual drainsnumber of projects		1	1						
acres served ²		160	500						
Legally organized public drainsnumber of projects	1	1	1	1	1	1	1	1	
acres served ²	376,988	142,997	165,700	12,167	44,161	27,725	257,027	23,325	339,324
PROJECTS, 1960, BY YEAR STARTED									
1950-1959 number of projects		1	1						
acres served ²		160	500						
Prior to 1950number of projects	1	1	1	1	1	1	1	1	,
scres served ² .,	376,988	142,997	165,700	12,167	44,161	27,725	257,027	23,325	339,324
DRAINAGE OPERATIONS, 1950-1959 8									
Cost of drainage works and servicesprojects reporting	1	2	2	1	1	1	1		1
dollars	749,767	442,033	167,351	6,488	12,224	3,682	102,689		1,033,015
New drainage works constructed, enlarged, or installed	1	(4)	2				1		
dollars	7,000	(4)	18,370				85,309		
Open ditches,projects reporting	1	(4)	2				1		
length, miles	1.9	(4)	3.8				8.7		
Tile or covered drainsprojects reporting							1		
length, miles							1.5		
Levees or dikes									
length, miles									
Pumpeprojects reporting									
number of pumps									
Other (see text) ,									
Cost of maintenance, operation, repair, and									
administrationprojects reporting	1	(4)	1	1	1	1	1		1

Land served by two or more projects counted only once.

Acres served by two projects are included for each project. See text.

Tincludes projects taken over by another project prior to 1960. See text.

Licitate in State total only.

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

Item and Census year	Montealm	Muskegon	Newaygo	Oakland	Oceana	Ogemaw	Osceola	Ottawa	Presque Isle	Roscommon
AREA									1510	
1 Approximate land areaacres 1960	455,680	322,560	548,480	561.280	343,040	367,360	371,840	360,960	418,560	333,440
2 Land in farms	321,688	97,524	184,058	165,110	170,963	126,943	199,230	217,558	138,772	12.212
3 Drainage projectsnumber 1960	1	1	1	1	1	2	1	1	1	1
4 1950	1	1	1	1	1	1	1	1	1	,
5 Total area in drainage projects	164,024	95,194	140,352	206,259	86,968	8,120	41,007	190,122	1,820	6,486
6 1950	152,704	96,704	139,392	202,419	86,903	7,930	41,007	190,722	1,820	14,549
7 Area not used for agriculture or not drained acres served 1960		2,880		60,000	6,000	720	1,680			·
8 Net area drained and used for agriculture acres served 1950	164,024	92,314	140,352	146,259	80,968	7,400	39,327	190,122	1,820	6,486
9 Drainage established before 1950 acres served 1960	152,704	92,314	139,392	142,419	80,968	7,210	39,327	189,922	1,820	6,486
10 Area added, 1950-1959 acres served 1960	11,320		960	3,840		190		200		
11 Area served by two or more projects acres served 1960						450				
PROJECTS, 1960, BY TYPE OF ORGANIZATION										
12 Drains owned by one landowner				• • • •	- • •	1	•••	•••		
13 acres served ²						640	•••	• • • • • • • • • • • • • • • • • • • •		•••
14 Cooperative or mutual drainsnumber of projects					• • •		•••		•••	• • • •
15 acres served ²					•••	•••			•••	
16 Legally organized public drains	1	1	1	1	1	1	1	1	1	1
17 acros served ²	164,024	92,314	140,352	146,259	80,968	7,210	39,327	190,122	1,820	6,486
PROJECTS, 1960, BY YEAR STARTED										
18 1950-1959 number of projects						1				
19 acres served ²						640				
20 Prior to 1950number of projects	1	1	1	1	1	1	1	1	1	1
21 acres served ²	164,024	92,314	140,352	146,259	80,968	7,210	39,327	190,122	1,820	6,486
ORAINAGE OPERATIONS, 1950-1959 ⁸										
22 Cost of drainage works and services projects reporting	1	1	1	. 1	1	(4)		1		1
23 dollars	309,113	170,752	193,863	250,950	32,214	(4)		316,160		896
24 New drainage works constructed, enlarged,	307,123	170,702	175,005	250,950	22,24	()	•••	310,100		690
or installed	1		1	1		(*)	•••	1	•••	1
25 dollars	178,000		68,695	153,572		(4)		69,865		896
26 Open ditches	1		1	1		(4)		1	•••	1
27 length, miles	60.5		4.8	3.3		(4)		5.7		0.2
28 Tile or covered drainsprojects reporting			1	1		(4)		1		•••
29 length, miles			1.5	0.7		(4)		1.1		
30 Levees or dikes								•••		
31 length, miles										•••
32 Pumpeprojects reporting							•••			•••
number of pumps										
84 Other (see text)projects reporting							• • • •			
25 Cost of maintenance, operation, repair, and administration	1	1	1	1	1			1		
36 dollars	131,113	170,752	125,168	97,378	32,214			246,295		
Willias	,	,	,	,	,			,		•••

liand served by two or more projects counted only once.

Acres served by two projects are included for each project. See text.

Includes projects taken over by another project prior to 1960. See text.

The luded in State total only.

County Table 1. - DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959 [See text for comparability of 1960 and 1950 data]

[See text for comparability of 1990 and 1950 data]											
Item and Census year		Saginaw	St. Clair	St. Joseph	Sanilac	Shiawassee	Tuscola	Van Buren	Washtenaw	Wayne	
AREA											
Approximate land area.	acres 1960	519,680	473,600	325,120	615,040	345,600	522,240	388,480	458,240	388,48	
Land in farms	acres 1959	402,060	309,987	255,655	537,716	296,723	404,433	265,471	320,097	84,74	
Drainage projects	number 1960	5	4	1	1	1	3	2	4		
	1950	1	1	1	1	1	1	1	1		
Total area in drainage projects sere	es served 1960	462,268	254,808	73,159	487,559	281,132	422,583	190,022	364,196	234,00	
	1950	459,968	242,127	73,159	480,889	278,112	421,373	190,022	364,196	234,00	
Area not used for agriculture or not dramed acre	es served 1960	5,200	12,797				5,280		14,000	95,7€	
Net area drained and used for agriculture acre	es served 1960	457,068	242,011	73,159	487,559	281,132	417,303	190,022	350,196	138,24	
Dramage established before 1950 acre	es served 1960	453,268	229,330	73,159	486,889	278,112	416,093	190,022	350,196	138,24	
Area added, 1950-1959 acre	es served 1960	3,800	12,681		670	3,020	1,210				
Area served by two or more projects acre	es served 1960	9,250	1,130		•••		1,500	176	3,445		
PROJECTS, 1960, BY TYPE OF ORGANIZAT	TION										
Drains owned by one landowner	ber of projects	1	3				1	1			
	acres served2	640	1,790				900	176			
Cooperative or mutual drainsnum	ber of projects	2					1		3		
	acres served2,,	8,930					600		3,445		
Legally organized public drainsnum	ber of projects	2	1	1	1	1	1	1	1		
	acres served2	456,748	241,351	73,159	487,559	281,132	417,303	190,022	350,196	138,24	
PROJECTS, 1960, BY YEAR STARTED	,										
1950-1959num	ber of projects	2	3			• • • • • • • • • • • • • • • • • • • •			3		
I	acres served2	2,140	1,790						3,445		
Prior to 1950num	ber of projects	3	1	1	1	1	3	, 2	1		
	acres served2	464,178	241,351	73,159	487,559	281,132	418,803	190,198	350,196	138,24	
DRAINAGE OPERATIONS, 1950-1959											
Cost of drainage works and servicespro	jects reporting	5	4	1	1	1	1	2	4		
	dollars	4,120,646	814,260	141,693	1,122,660	805,170	2,001,602	540,361	636,508	5,143,35	
New drainage works constructed, enlarged, or installedpro	jects reporting	, 5	4		1	1	1	(4)	3		
	dollars	277,068	296,844		1,120,931	123,344	84,560	(4)	8,653	12,94	
Open ditchespro	ojects reporting	3	4		1	1	1	(4)	3		
	length, miles	49.4	56.2		290.7	20.3	17.7	(4)	3.4	5.	
Tile or covered drainspro	jects reporting	2	3			1		(4)			
	length, miles	55.0	56.0			0.6		(4)			
Levees or dikespro	jects reporting	1	1								
	length, miles	4.0	0.7								
Pumpe	ojects reporting	3	1								
ne	umber of pumps	6	4								
Other (see text)	ojects reporting								2		
Cost of maintenance, operation, repair, and administrationpro	ojects reporting	3	1	1	1	1	1	(4)	1		
	dollars	3,843,578	517,416	141,693	1,729	681,826	1,917,042	(4)	627,855	5,130,40	

land served by two or more projects counted only once.

Acres served by two projects are included for each project. See text.

Includes projects taken over by another project prior to 1960. See text.

Included in State total only.



State Table 1. – DRAINAGE PROJECTS-NUMBER, AREA, COST, AND WORKS, 1920 TO 1960

See text for comparability of data

Sec	text for comparability of d	ut n			
Item	1960 Census	1950 Census	1940 Census	1930 Census	1920 Census
AREA					
Approximate land area	51,205,760	51,205,760	51,205,760	51,749,120	51,749,120
Land in forms	30,796,097	32,883,163	32,606,962	30,913,367	30,221,758
Drainage projects	307	82	12,498	NA NA	NA.
Total area in drainage projects	11,688,201	11,269,962	10,990,409	11,474,683	9,232,709
Area not used for agriculture or not drained	1,127,393	NA NA	NA.	NA NA	NA.
	10,560,808	NA.	28,397,586	28,782,323	NA NA
Net area drained and used for agriculture		NA NA	NA NA	0,702,323 NA	NA NA
Drainage established 10 years or more before Census date	9,316,571				NA NA
Drainage established within 10 years of Census date	1,244,237	NA	NA NA	NA	741,953
Area served by two or more projects	475,138	NA.	3,711,787	3,206,822	741,953
PROJECTS BY TYPE OF ORGANIZATION					
Drains owned by one landowner	25	(3)	NA.	NA.	NA.
acres served .	34,930	(3)	35,730	1,800	800
Cooperative or mutual drainsnumber of projects	192	(3)			
acres served	248,293	(3)			
Legally organized public drainsnumber of projects	90	382	NA.	NA.	NA.
acres served	10,761,923	3 _{11,269,962}	10,954,679	11,472,883	9,231,909
	, ,	, ,	, .		
PROJECTS BY YEAR STARTED					
Started 10 years or more before Census date	147	NA.	NA.	NA.	NA
acres served	10,674,766	NA.	10,917,025	10,665,166	43,585,208
Started within 10 years of Census datenumber of projects	160	NA.	NA.	NA.	NA
acres served	370,380	NA NA	73,384	809,517	45,633,290
OPERATIONS, 10-YEAR PERIOD PRECEDING CENSUS DATE					
Cost of draunage works and services	248	71	NA.	NA.	NA NA
dollars	41,809,993	18,310,583	NA.	NA.	N.A
New drainage works constructed, enlarged, or installed	207	530	NA NA	NA.	NA
cost, dollars	23,831,372	51,594,914	NA.	NA.	NA NA
Open ditches	205	29	NA NA	NA NA	NA NA
length, miles	2,333.2	357	NA NA	NA NA	N.A
Tile or covered drains	47	11	NA.	NA.	NA NA
length, mules	935.6	80	NA NA	NA.	N.A
Levees or dikes	2		NA.	NA.	N.A
length, mules	0.4		NA.	NA.	N.A
Pumps	2	NA NA	NA.	NA.	N.A
number of pumps	2	NA	NA.	NA.	NA NA
Other (see text) projects reporting	2	NA.	NA.	NA NA	N.A
Cost of maintenance, operation, repair, and administration projects reporting	97	71	NA.	NA NA	NA
dollars	17,978,621	16,715,669	NA.	NA NA	NA NA
STATUS ON CENSUS DATE			46 604 000	6/ 139 6/1	42,017,445
Capital investment,dollars	NA.	NA.	65,576,077	64,139,641	42,017,44
Physical works: Open ditcheslangth, miles	NA.	NA.	15,856.7	14,477.6	14,657.0
Tile drains	NA NA	NA.	9,893.4	9,451.3	5,924.6
Levees and dikeslength, miles	NA.	NA.	0.4	149.7	0.3
Pumping unitsnumber of units	NA.	NA.	3	5	
• =			l	L	

NA Not available.

In 1940 each county drain was counted as a separate project. See text.

Not fully comparable. See text.

All projects in 1950 included with county drains. See text.

1920 figures exclude 14,211 eres for which date of organization was not reported.

Cost of new works for leads not previously drained.

State Table 2.-DRAINAGE

			ed and used lture, 1960	Area by period drainage was established						
Size of project (Based on area of agricultural land in project)	Number of projects	Total	Served by two	Befo	re 1950	Ares added	1950-1959			
		(acres)	or more projects (acres)	Projects reporting	Acres	Projects reporting	Acres			
All projects.	307	11,045,146	959,476	233	9,793,769	161	1,251,377			
500 to 999 scres.	110	76,273	30,715	68	42,195	56	34,078			
1,000 to 1,999 scres	76	105,305	41,065	53	65,380	39	39,925			
2,000 to 4,999 acres	34	95,505	33,442	25	46,932	22	48,573			
5,000 to 9,999 acres	5	36,520	8,980	5	31,180	2	5,340			
10,000 to 19,999 acres	7	105,929	120	7	98,281	3	7,648			
20,000 to 49,999 acres	18	608,036	18,840	18	587,096	4	20,940			
50,000 to 99,999 acres	22	1,597,870	124,600	22	1,477,986	10	119,884			
100,000 or more acres.	35	8,419,708	701,714	35	7,444,719	25	974,989			

State Table 3.-DRAINAGE PROJECTS, 1960,

		Ares draine for agricul		Area by period drainage was established					
Type of organization	Number of projects	Total	Served by two	Befor	e 1950	Area added	1950-1959		
		(acres)	or more projects (acres)	Projects reporting	Acres	Projects reporting	Acres		
1 All projects.	307	11,045,146	959,476	233	9,793,769	161	1,251,377		
2 Drains owned by one landowner	25	34,930	24,420	19	25,340	13	9,590		
8 Cooperative or mutual drains	192	248,293	86,802	124	132,927	105	115,366		
4 Legally organized public drains	90	10,761,923	848,254	90	9,635,502	43	1,126,421		

State Table 4.-DRAINAGE PROJECTS, 1960,

		Area draine for agricul		Area by period drainage was eatsblished						
Year of organization	Number of projects		Served by two	Befor	e 1950	Area added 1950-19				
	projects	Total (acres)	or more projects (acres)	Projects reporting	Acres	Projects reporting	Acres			
1 All projects	307	11,045,146	959,476	233	9,793,769	161	1,251,377			
2 1950-1959	160	370,380	212,672	86	211,772	118	158,608			
8 Prior to 1950	147	10,674,766	746,804	147	9,581,997	43	1,092,769			
ì										

PROJECTS, 1960, BY SIZE

		New works constructed, enlarged, or installed, 1950-1959									and services,	rainage works	Cost of d
	Other,	npa squ	Pun	nd dikes	Leveea a	ered drains	Tile or cov	itches	Open d	works	For new	tal	To
ś	projects reporting	Number	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting
2		2	2	0.4	2	935.6	47	2,333.2	205	23,831,372	207	41,809,993	248
1						12.2	9	148.2	80	232,448	80	246,055	84
		1	1		•••	24.3	8	143.0	55	267,963	56	287,916	61
1						8.8	4	118.3	27	267,734	27	290,737	30
								23.0	2	13,500	2	103,721	4
						4.2	2	7.6	2	132,589	3	197,351	4
						8.4	3	26.0	3	214,607	3	561,499	13
				0.1	1	82.3	4	156.9	10	2,958,699	10	3,903,405	18
		1	1	0.3	1	795.4	17	1,710.2	26	19,743,832	26	36,219,309	34

BY TYPE OF ORGANIZATION

Cost of dr	sinage works	and services,	1950-1959			New works	constructed, e	nlarged, or i	nstalled, 195	50-1959			L
Tot	al	For new	works	Open d	itches	Tile or cove	red drains	Levees s	nd dikes	Pump	38	Other,	
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number	projects reporting	
248	41,809,993	207	23,831,372	205	2,333.2	47	935.6	2	0.4	2	2	2	
24	59,265	24	59,265	24	90.6								
149	772,779	138	716,380	137	331.9	21	45.3			1	1	2	
75	40,977,949	45	23,055,727	44	1,910.7	26	890.3	2	0.4	1	1		

BY YEAR OF ORGANIZATION

Cost of d	rainage works	and services,	1950-1959			New works	constructed, er	larged, or 1	nstalled, 195	0-1959			1
To	tal	For ne	works	Open di	itches	Tile or cove	ered drains	Levees a	nd dikes	Pu	шрз	Other,	
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Frojects reporting	Length (miles)	Projects reporting	Number	projects reporting	
248	41,809,993	207	23,831,372	205	2,333.2	47	935.6	2	0.4	2	2	2	
160	2,361,562	159	2,162,895	159	470.7	19	44.1					2	
88	39,448,431	48	21,668,477	46	1,862.5	28	891.5	2	0.4	2	2		l

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959 [See text for comparability of 1960 and 1950 data]

			·							
	Itom and Census year	The State	Aitkin	Anoka	Becker	Beltrami	Benton	Big Stone	Blue Earth	Brown
	AREA									
1	Approximate land areaacres 1960	51,205,760	1,167,360	272,000	841,600	1,610,880	258,560	326,400	473,600	392,320
2	Land in farmsacres 1959	30,796,097	232,046	142,629	499,138	260,747	227,972	310,208	456,255	375,610
3	Drainage projectsnumber 1960	307	2	1	5	6	1	1	3	2
4	1950	82	1	1	1	1	1	1	1	1
5	Total area in drainage projects 1 acres served 1960	11,688,201	262,116	99,968	52,602	297,475	16,840	29,625	176,616	128,115
5	1950	11,269,%2	407,522	99,968	48,102	374,835	16,840	29,625	145,036	88,435
7	Area not used for agriculture or not drained acres served 1960	1,127,393	7,000			194,691				
8	Net area drained and used for agriculture acres served 1960	10,560,808	255,116	99,968	52,602	102,784	16,840	29,625	176,616	128,115
9	Drainage established before 1950 acres served 1960	9,316,571	255,116	99,968	48,102	100,864	16,840	29,625	145,036	88,435
10	Area added, 1950-1959 acres served 1960	1,244,237			4,500	1,920			31,580	39,680
11	Area served by two or more projects acres served 1960	475,138	640		460	36,996				815
	PROJECTS, 1960, BY TYPE OF ORGANIZATION									
12	Drains owned by one landowner number of projects	25	1					• • • •		
18	acres served ²	34,930	640							
14	Cooperative or mutual drains	192			4	4			2	1
15	acres served ² .	248,293		•	4,960	3,460			4,800	815
16	Legally organized public drains number of projects	90	1	1	1	2	1	1	1	1
17	acres served ² .,	10,761,923	255,116	99,968	48,102	136,320	16,840	29,625	171,816	128,115
	PROJECTS, 1980, BY YEAR STARTED									
18	1950-1959 number of projects	160	1		4	4			2	•••
19	acres served ²	370,380	640		4,960	3,460			4,800	
20	Prior to 1950number of projects,	147	1	1	1	2	1	1	1	2
21	acres served ²	10,674,766	.755,116	99,968	48,102	136,320	16,840	29,625	171,816	128,930
	DRAINAGE OPERATIONS, 1950-1959									
22	Cost of drainage works and servicesprojects reporting	248	2	1	4	5		1	3	2
23	dollars	41,809,993	7,065	27,502	18,878	75,418		29,303	865,376	2,288,382
24	New drainage works constructed, enlarged, or installed	207	1		4	4			3	2
25	dollare	23,831,372	2,065		17,922	7,808			504,084	1,224,569
26	Open ditchesprojects reporting	205	1		4	4			3	2
27	length, miles	2,333.2	2.0	•••	14.8	6.2			48.6	104.5
28	Tile or covered drainsprojects reporting	47							3	1
29	length, miles	935.6							36.9	62.0
30	Levees or dikesprojects reporting	2								
81	length, miles	0.4								
32	Pumpsprojects reporting	2								
33	number of pumps	2								
34	Other (see text)	2			. 2					
35	Cost of maintenance, operation, repair, and administrationprojects reporting	97	1	1	2	1		1	3	2
36	dollars	17,978,621	5,000	27,502	956	67,610		29,303	361,292	1,063,813

land served by two or more projects counted only once.
Acres served by two projects are included for each project. See text.
Includes projects taken over by another project prior to 1960. See text.

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

		_							
Item and Census year	Carlton	Carver	Свея	Chippewa	Chisago	Clay	Clearwater	Cottonwood	Crow Wing
AREA									
Approximate land area	550,400	229,120	1,313,920	372,480	268,160	672,000	643,200	409,600	639,3
Land in farmsacres 1959	196,325	213,745	250,849	350,579	210,672	625,866	253,193	407,270	181,6
Drainage projectsnumber 1980	1	1	1	1	2	12	2	1	
1950	1	1	1	1	1	1	1	1	
Total area in drainage projects 1	20,080	28,026	90,379	183,709	42,684	274,415	98,330	142,510	40,6
1950	65,280	18,546	90,379	149,709	41,984	266,470	59,930	137,830	40,6
Area not used for agriculture or not drained acres served 1960	1,520						47,040		
Not area drained and used for agriculture acres served 1960	18,560	28,026	90,379	183,709	42,684	274,415	51,290	142,510	40,6
Drainage established before 1950 acres served 1960	18,560	18,546	90,379	149,709	41,984	265,355	51,290	137,830	40,6
Area added, 1950-1959 acres served 1960		9,480		34,000	700	9,060		4,680	
Area served by two or more projects acres served 1960		•••		• • • • • • • • • • • • • • • • • • • •		5,925	16,960		
PROJECTS, 1960, BY TYPE OF ORGANIZATION									
Drains owned by one landowner number of projects			•••						
acres served ²									
Cooperative or mutual drainsnumber of projects					1	11			
acres served ² .,					700	10,990			
Legally organized public drainsnumber of projects	1	1	1	1	1	1	2	1	
acres served ²	18,560	28,026	90,379	183,709	41,984	269,350	68,250	142,510	40,6
PROJECTS, 1960, BY YEAR STARTED									
1950-1959number of projects					1	2			
acres served ²					700	1,340			
Prior to 1950number of projects	1	1	1	1	1	10	2	1	
acres served ²	18,560	28,026	90,379	183,709	41,984	279,000	68,250	142,510	40,6
DRAINAGE OPERATIONS, 1950-1959 ³									
Cost of drainage works and servicesprojects reporting	1	1		1	2	3	2	1	
dollars	5,000	125,446		996,327	19,232	265,258	19,902	283,050	
New drainage works constructed, enlarged, or installed				1	1	3	1	1	
dollars				478,780	7,300	76,022	12,038	50,648	
Open datches				1	1	3	1	1	
length, miles			·	67.4	3.0	24.3	15.0	7.1	
Tile or covered drains		.,.		1				1	
length, miles				26.4				0.6	
Levees or dikesprojects reporting									
length, miles									
Pumpeprojects reporting									
number of pumps									
Other (see text)									
Cost of maintenance, operation, repair, and									
administrationprojects reporting	1	1	• • • • • • • • • • • • • • • • • • • •	1	1	1	2	1	
dollars	5,000	125,446		517,547	11,932	189,236	7,864	232,402	

Land served by two or more projects counted only once.

Aares served by two projects are included for each project. See text.

Fincludes projects taken over by another project prior to 1960. See text.

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

-	Item and Census year	Dakota	Dodge	Douglas	Faribault	Freeborn	Grant	Hennepin	Houston	Hubbard
	AREA							-		
	Approximate land area	365,440	278,400	407,680	456,320	449,280	356,480	261 600	267.600	
		298,074	267,835	358,331	446,588	431,991	331,081	361,600	361,600	596,48
8		2	12	1	1	16	2	188,665	321,072	167,54
4	1950	1	1	1	1	1	1	1	1	
į	Total area in drainage projects 1	10,885	37,580	78,950	270,626	194,214	69,606	42,832	_	27,21
е	1950	7,936	30,771	78,950	259,866	140,544	65,203	41,252	14,528 14,528	27,21
7	Area not used for agriculture or not drained acres served 1980			560				4,600	14,526	27,21
e	Net area drained and used for agriculture acres served 1960	10,885	37,580	78,390	270,626	194,214	69,606	38,232	14,528	27,21
9	Drainage established before 1950 acres served 1960	7,936	28,890	78,390	259,866	142,064	65,203	38,232	14,528	27,21
10	Area added, 1950-1959 acres served 1960	2,949	8,690		10,760	52,150	4,403			· ·
11	Area served by two or more projects acres served 1980	120	1,480			2,860	480			
	PROJECTS, 1960, BY TYPE OF ORGANIZATION									
12	Drains owned by one landowner number of projects									
13	acres served ²									
14	Cooperative or mutual drainsnumber of projects	1	11			15	1	1		
15	acres served ²	569	12,240			22,650	1,380	600		
16	Legally organized public dramsnumber of projects	1	1	1	1	1	1	2	1	, ,
17	acres served ²	10,436	26,820	78,390	270,626	174,424	68,706	37,632	14,528	27,212
	PROJECTS, 1960, BY YEAR STARTED									
16	1950-1959 number of projects	1	9			13	1			
19	acres served ² .,	569	9,050			19,910	1,380			
20	Prior to 1950number of projects	1	3	1	1	3	1	3	1	
21	acres served ²	10,436	30,010	78,390	270,626	177,164	68,706	38,232	14,528	27,213
	DRAINAGE OPERATIONS, 1950-1959 ³									
22	Cost of drainage works and services projects reporting	2	11	1	1	16	2			
23	dollars	103,070	120,312	12,784	1,089,910	1,056,571	73,429			
24	New drainage works constructed, enlarged, or installed	2	10		1	14	2			·
25	dollars	80,670	110,032		198,823	523,814	53,158			
26	Open ditchesprojects reporting	2	10		1	14	2			
27	tength, miles	7.4	17.7		19.8	68.0	4.2			
28	Tile or covered drainsprojects reporting	1	3		1	7				
29	length, miles	3.8	1.5		26,2	30.7				
30	Levees or dikes									
31	tength, mites									
32	Pumpsprojecte reporting									
38	number of pumps									
34	Other (see text)									
35	Cost of maintenance, operation, repair, and administration	1	4	1	1	7	1			
36	dollars	22,400	10,280	12,784	891,087	532,757	20,271			
			· i		,	,	,			

lland served by two or more projects counted only once.

Acres served by two projects are included for each project. See text.

Includes projects taken over by another project prior to 1960. See text

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County Table 1. - DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

	Item and Census year	Isanti	Itasca	Jackson	Kanabec	Kandiyohi	Kittson	Koochiching	Lac qui Parle	Lake of the Woods
Ì	AREA									
1	Approximate land area	282,880	1,704,320	446,720	336,000	527,360	719,360	2,002,560	494,720	837,120
2	Land in farms	210,859	175,952	436,655	208,695	458,323	512,299	116,591	477,920	130,459
з	Drainage projectsnumber 1980	3	1	2	2	2	42	2	1	4
ı	1950	1	1	1	1	1	1	1	1	1
5	Total area in drainage projects 1	62,984	71,239	193,472	41,600	268,768	354,104	192,400	157,795	323,500
6	1950	61,184	123,955	188,172	41,600	201,728	318,464	604,672	85,555	322,660
7	Area not used for agriculture or not drained acres served $1960\ldots$		16,932				57,600	111,500		235,308
в	Net area drained and used for agriculture scres served 1960	62,984	54,307	193,472	41,600	268,768	296,504	80,900	157,795	88,192
9	Drainage established before 1950 acres served 1960	62,984	54,307	188,352	41,600	201,728	260,864	79,580	85,555	87,352
۰	Area added, 1950-1959 acres served 1960			5,120		67,040	35,640	1,320	72,240	840
١	Area served by two or more projects scree served 1980		•••	40		160	40,780		• • • • • • • • • • • • • • • • • • • •	2,000
	PROJECTS, 1980, BY TYPE OF ORGANIZATION									
2	Drains owned by one landowner number of projects						21			1
3	acres served ²						31,430			840
4	Cooperative or mutual drainsnumber of projects	2		1	1	1	20	1		2
5	acres served ² , .	1,800		220	1,600	160	38,550	1,320		2,000
в	Legally organized public drainsnumber of projects	1	1	1	1	1	1	1	1	1
1	acres served ²	61,184	54,307	193,292	40,000	268,768	269,824	79,580	157,795	87,352
	PROJECTS, 1960, BY YEAR STARTED									
8	1950-1959number of projects					1	41	1		3
9	acres served ²					160	69,980	1,320		2,840
	Prior to 1950 number of projects	3	1	2	2	1	1	1	1	1
١	acres served ²	62,984	54,307	193,512	41,600	268,768	269,824	79,580	157,795	87,352
	DRAINAGE OPERATIONS, 1950-1959 ³									
2	Cost of drainage works and servicesprojects reporting	3		1	1	2	42	1	1	3
3	dollars	6,059		749,446	495	897,376	381,760	1,100	1,767,752	8,013
4	New drainage works constructed, enlarged, or installed	2		1		2	42	1	1	3
5	dollars	3,300		144,144		390,893	155,314	1,100	1,340,958	8,013
6	Open ditchesprojects reporting	2		1		2	42	1	1	3
7	length, miles	3.7		13.2		38.4	149,4	4.3	103.5	9.3
8	Tile or covered drainsprojects reporting			1		1			1	
9	length, miles			18.2		9.6			44.9	
0	Levees or dikes								1	
ı	length, miles								0.3	
2	Pumpeprojects reporting									
а	number of pumps						•••			
4	Other (see text)									
5	Cost of maintenance, operation, repair, and administrationprojects reporting	1		1	1	1	1		1	
36	dollars	2,759		605,302	495	506,483	226,446		426,794	
- 1		1	I	1	I	1	1	I	I	

¹Land served by two or more projects counted only once.

Aeres served by two or more projects are included for each project. See text.

Tincludes projects taken over by another project prior to 1960. See text.

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

=		1	To the total company	bility of 1960 and 1	and usus j					
	Item and Census year	Le Sueur	Lincoln	Lyon	McLeod	Mahnomen	Marshall	Mertin	Meeker	Mille Lacs
	AREA									
1	Approximate land areaacres 1980	282,240	345,600	456,320	318,720	367,360	1,152,000	452,480	396,800	363,520
2	Land in farms	266,540	329,854	435,247	301,111	220,862	800,186	452,344	366,741	200,131
8	Drainage projectsnumber 1960	1	1	3	4	4	6	2	2	2
4	1950	1	1	1	1	1	1	1	1	1
5	Total area in drainage projects 1	91,167	58,906	127,601	82,090	50,600	779,036	287,746	64,767	21,504
6	1950	64,285	58,906	105,711	70,790	44,800	823,450	277,504	56,064	20,864
7	Area not used for agriculture or not drained acres served 1980				·	·	99,256			
6	Net area drained and used for agriculture acres served 1980	91,167	58,906	127,601	82,090	50,600	679,780	287,746	64,767	21,504
9	Drainage established before 1950 acres served 1960	64,285	58,906	105,711	71,650	44,800	663,450	277,504	60,264	20,864
10	Area added, 1950-1959 acres served 1960	26,882		21,890	10,440	5,800	16,330	10,242	4,503	640
11	Area served by two or more projects acres served 1980				2,660	100	1,420	·	840	
	PROJECTS, 1980, BY TYPE OF ORGANIZATION									
12	Drains owned by one landowner number of projects									
13	acres served ²				•••		900	•••	•••	
14	Cooperative or mutual drains			2					•••	
15	acres served ²			4,440	3	3	4	1	1	1
16	Legally organized public drains number of projects	1		1	3,520	5,900	4,290 1	1,660	840	640
17	acres served ²	91,167	58,906	123,161	81,230	44.800	676,010	286,086	1	-
	33.03	72,101	30, 900	125,101	01,230	44,800	676,010	286,086	64,767	20,864
	PROJECTS, 1960, BY YEAR STARTED									
18	1950-1959			2		3	5		1	1
19	acres served ²		•••	4,440		5,900	5,190		840	640
20	Prior to 1950number of projects	1	1	1	4	1	1	2	1	1
21	acres served ²	91,167	58,906	123,161	84,750	44,800	676,010	287,746	64,767	20,864
	ORAINAGE OPERATIONS, 1950-1959									
22	Cost of drainage works and services projects reporting	1	1	3	2	4	6	2	2	2
23	dollare	442,598	85,172	1,223,540	289,742	25,690	666,296	1,121,211	52,343	7,784
24	New drainage works constructed, enlarged, or installed	1		3	1	3	6	2	2	(4)
25	dollars	355,224		716,785	162,582	11,859	39,628	104,274	38,568	(4)
26	Open ditchesprojects reporting	1		3	1	3	6	1	2	(*)
27	length, miles	38.4		60.7	16.3	6.8	18.4	12.5	6.9	(4)
28	Tile or covered drainsprojects reporting	1		3	1			2		
29	length, miles	9.1		47.6	0.7			17.5		
30	Levees or dikesprojects reporting	1								
31	longth, miles	0.1								
82	Pumpsprojects reporting									
33	number of pumps									
34	Other (see text)projects reporting									
35	Cost of maintenance, operation, repair, and									•••
	administrationprojects reporting	1	1	2	2	1	1	1	1	(4)
36	dollars	87,374	85,172	506,755	127,160	13,831	626,668	1,016,937	13,775	(4)

land served by two or more projects counted only once.

Acres served by two projects are included for each project. See text.

Includes projects taken over by another project prior to 1560. See text.

Included in State total only.

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County Table 1. –DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

_					,					
	Item and Census year	Morrison	Mower	Murray	Nicollet	Nobles	Norman	Otter Tsil	Pennington	Pine
	AREA									
1	Approximate land area	727,040	449,920	453,120	293,760	455,680	566,400	1,280,000	398,080	903,680
2	Land in farmsacres 1959	516,413	431,685	424,114	270,169	436,042	502,739	1,073,848	303,489	375,289
3	Drainage projectsnumber 1960	1	5	1	2	1	23	2	13	1
4	1950	1	1	1	1	1	1	1	1	1
5	Total area in drainage projects scree served 1960	59,957	27,500	176,718	142,077	109,436	285,331	114,171	341,555	37,274
6	1950	59,163	17,320	176,718	101,527	108,211	265,139	114,011	336,765	37,274
7	Area not used for agriculture or not drained acres served 1980						500			6,960
8	Net area drained and used for agriculture scres served 1980	59,957	27,500	176,718	142,077	109,436	284,831	114,171	341,555	30,314
	Drainage established before 1950 acres served 1960	59,163	17,320	176,718	101,527	108,211	266,649	114,011	336,765	30,314
10	Area added, 1950-1959	794	10,180		40,550	1,225	18,182	160	4,790	
11			10,100		1,000		63,260		137,552	
11	Area served by two or more projects acres served 1980		• • • • • • • • • • • • • • • • • • • •	•••	2,000		05,200		151,552	
	PROJECTS, 1960, BY TYPE OF ORGANIZATION									
12	Drains owned by one landowner number of projects									
13	acres served ²									
14	Cooperative or mutual drainsnumber of projects		4		1		21	1	11	
15	acres served ²		2,920		1,000		16,740	1,180	14,772	
16	Legally organized public drains number of projects	1	1	1	1	1	2	,	2	1
17	acres served ²	59,957	24,580	176,718	142,077	109,436	332,041	112,991	467,785	30,314
				,		,	,	,	,	
	PROJECTS, 1960, BY YEAR STARTED									
18	1950-1959 number of projects	· · · ·	4		1		12	1	11	
19	acres served ²		2,920		1,000		78,582	1,180	14,772	
20	Prior to 1950number of projects	1	1	1	1	1	11	1	2	1
21	acres served ²	59,957	24,580	176,718	142,077	109,436	270,199	112,991	467,785	30,314
	DRAINAGE OPERATIONS, 1950-1959 ^b									
22	Cost of drainage works and servicesprojects reporting	1	5	1	2	1	13	2	13	
23	dollars	4,672	97,455	256,090	1,787,546	45,916	1,222,508	36,456	1,225,999	
24	New drainage works constructed, enlarged, or installedprojects reporting	1	5		2	1	12		13	
25	dollars	4,672	74,146		1,168,589	15,174	650,859		929,844	
26	Open ditchesprojects reporting	1				1	12		13	
27	length, miles	1.9	13.0		210.2	2.0	50.2		71.4	
28	Tile or covered drainsprojects reporting		1		2	1				•••
29	length, miles		0.3		51.9	1.5				***
30	Levees or dikes			***	31.7					
31	length, miles							•••		
32	Pumpsprojects reporting			***	• • • •				***	• • • • • • • • • • • • • • • • • • • •
32 33				•••				•••	••••	
a3	number of pumps			***					***	
	Other (see taxt)	• • • •	***	• • •		• • •		• • • •	• • •	• • •
35	Cost of maintenance, operation, repair, and administration. projects reporting.		2	1	2	1	1	2	2	
36	dollars		23,309	256,090	618,957	30,742	571,649	36,456	296,155	

Inand served by two or more projects counted only once.
Acres served by two projects are included for each project. See text.
Includes projects taken over by another project prior to 1960. See text.

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

_			o text for comparat							
	Item and Census year	Pipestone	Polk	Pope	Ramsey	Red Lake	Redwood	Renville	Rice	Rock
	AREA									
1	Approximate land areaacres 1960	296,960	1,287,680	435,840	102,400	276,480	559,360	627,200	316,800	310,400
2	Land in farmsacres 1959	292,290	1,158,841	366,812	13,125	221,799	538,168	606,071	295,713	291,589
3	Drainage projectsnumber 1960	1	14	2	1	6	7	1	3	1
4	1950	1	1	1	1	1	1	1	1	1
5	Total area in drainage projects 1 scres served 1960	22,514	756,780	35,532	11,593	152,176	309,350	468,838	33,328	6,760
6	1950	22,514	729,120	35,532	11,343	137,216	229,530	284,134	29,370	6,760
7	Area not used for agriculture or not drained acres served 1960		16,560							
8	Net area drained and used for agriculture acres served 1960	22,514	740,220	35,532	11,593	152,176	309,350	468,838	33,328	6,760
9	Drainage established before 1950 acres served 1960	22,514	716,980	35,532	11,343	151,296	221,466	284,134	29,370	6,760
10	Area added, 1950-1959 acres served 1960		23,240		250	880	87,884	184,704	3,958	
11	Area served by two or more projects acres served 1960		90,180	160		48,210	200			
	PROJECTS, 1960, BY TYPE OF ORGANIZATION									
	Drains owned by one landowner number of projects		• • • • • • • • • • • • • • • • • • • •		•••		1	•••		
13	acres served ²	•••				•••	1,120			•••
14	Cooperative or mutual drainsnumber of projects		11	1		4	5	•••	2	
15	acres served ² .,		8,840	160		2,880	6,440		878	
16	Legally organized public drainsnumber of projects	1	3	1	1	2	1	1	1	1
17	acres served ²	22,514	821,560	35,532	11,593	198,656	301,990	468,838	32,450	6,760
	PROJECTS, 1960, BY YEAR STARTED									
16	1950-1959number of projects		7	1		4			2	
19	acres served ²		84,720	160		2,880			878	
20	Prior to 1950number of projects	1	7	1	1	2	7	1	1	1
21	acres served ²	22,514	745,680	35,532	11,593	198,656	309,550	468,838	32,450	6,760
	DRAINAGE OPERATIONS, 1950-1959 ⁵									
22	Cost of drainage works and servicesprojects reporting	1	10	2	1	6	2	1	3	1
23	dollars	13,127	1,784,742	6,387	39,162	743,565	4,027,655	4,791,478	193,960	221
24	New drainage works constructed, enlarged, or installed		9	1		5	2	1	3	
25	dollars		977,023	1,387	1,800	597,611		-		•••
26	Open ditches		977,023	1,567		597,611	2,755,391	2,654,491	107,030	•••
27	length, miles		37.2	0.8		20.7	178.0	247.1	13.4	•••
26	Tile or covered drains				1	20.7	2	247.1	3	•••
29	length, miles				0.4		124.0	128.9	10.7	•••
30	Levees or dikes						124.0	120.9		•••
81	length, miles									•••
32	Pumpsprojects reporting						2			
33	number of pumps						2			•••
34	Other (see text)									
35	Cost of maintenance, operation, repair, and	,,,,					***			
.,	administrationprojects reporting	1	3	1	1	2	1	1	1	1
86	dollars	13,127	807,719	5,000	37,362	145,954	1,272,264	2,136,987	86,930	221

^{*}Land served by two or more projects counted only once.

*Acres served by two projects are included for each project. See text.

*Includes projects taken over by another project prior to 1960. See text.

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1980 and 1950 data]

		[See text for con	parability of 196	30 and 1950 data	J					
Item and Consus year	Roseau	St. Louis	Scott	Sherburne	Sibley	Stearns	Steele	Stevens	Swift	Todd
AREA										
1 Approximate land areancres 1660	1,072,640	4,019,840	225,280	280,320	371,840	867,840	272,000	364,800	478,080	606,08
2 Land in farms	544,544	306,612	203,574	199,741	361,317	788,398	265,040	349,687	443,703	510,03
3 Drainage projectsnumber 1960	5	2	1	1	7	1	18	3	2	
4 1950	1	1	1	1	1	1	1	1	1	
Total area in drainage projects	625,414	227,034	15,452	68,506	252,320	74,240	75,715	69,268	193,980	157,60
e 1950	680,704	231,834	10,554	68,506	118,016	74,240	48,154	64,768	121,754	157,60
7 Area not used for agriculture or not drained acres served 1960	225,926	98,000							800	
8 Net area drained and used for agriculture acres served 1980	399,488	129,034	15,452	68,506	252,320	74,240	75,715	69,268	193,180	157,60
9 Drainage established before 1950 acres served 1960	365,558	129,034	10,554	68,506	118,016	74,240	47,954	69,268	121,514	157,60
O Area added, 1950-1959 acres served 1960	33,930		4,898		134,304		27,761		71,666	
Area served by two or more projects scres served 1980	4,130		•••		1,760		730		760	
PROJECTS, 1980, BY TYPE OF ORGANIZATION										
2 Drains owned by one landowner number of projects										
acres served ²										
4 Cooperative or mutual drainsnumber of projects	2				6		17	2	1	
5 acres served 2	2,300				5,700		19,161	4,500	760	
6 Legally organized public drainsnumber of projects	3	2	1	1	1	1	1	1	1	
7 acres served ²	401,318	129,034	15,452	68,506	248,380	74,240	57,284	64,768	193,180	157,60
PROJECTS, 1960, BY YEAR STARTED										
8 1950-1959	4						11		1	
g acres served ²	7,340						13,171		760	
Prior to 1950number of projects	1	2	1	1	7	1	7	3	1	
i acres served ²	396,278	129,034	15,452	68,506	254,080	74,240	63,274	69,268	193,180	157,6
DRAINAGE OPERATIONS, 1950-1959 ^b										
2 Cost of drainage works and services projects reporting	5	2	1	1	2	1	15	2	2	
dollars	525,896	151,717	59,561	47,485	3,384,540	5,960	519,437	80,368	1,582,981	
4 New drainage works constructed, enlarged, or installed	5		1		1		12		2	
5 dollars	86,436		59,561		2,444,851		320,737		1,505,486	
6 Open ditchesprojects reporting	5		1		1		12		2	
7 length, miles	24.0		4.2		246.8		32.6		73.8	
8 Tile or covered drainsprojects reporting					1		2			
length, miles					60.7		26,6			
0 Levees or dikesprojects reporting										
1 length, miles										
2 Pumpeprojects reporting										
number of pumps										
4 Other (see text) projects reporting										
5 Cost of maintenance, operation, repair, and administration	1	2		1	2 -	1	7	2	1	
ő dollars	439,460	151,717		47,485	939,689	5,960	198,700	80,368	77,495	
	1							,		

Land served by two or more projects counted only once.

Acres served by two projects are included for each project. See text.

Includes projects taken over by another project prior to 1960. See text.

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

	Hem and Census year	Traverse	Wabashe	Wadena	Waseca	Washing- ton	Watonwan	Wilkin	Winona	Wright	Yellow Medicine
	AREA										
1	Approximate land areaacres 1960	366,080	333,440	343,040	265,600	249,600	277,120	481,280	398,720	429,440	485,120
2	Land in farmsacres 1959	346,685	305,343	222,723	262,595	195,107	269,140	444,149	343,883	395,944	470,757
3	Drainage projectsnumber 1960	2	1	2	5	1	1	18	1	1	1
4	1950	1	1	1	1	1	1	1	1	1	:
5	Total area in drainage projects 1 acres served 1960	169,434	9,240	85,714	62,448	18,520	63,253	266,868	1,260	42,598	158,57
6	1950	155,414	9,240	85,184	38,600	18,520	63,053	254,618	1,260	42,598	105,90
7	Area not used for agriculture or not drained acres served 1960				800			1,840			
8	Net area drained and used for agriculture acres served 1960	169,434	9,240	85,714	61,648	18,520	63,253	265,028	1,260	42,598	158,57
9	Drainage established before 1950 acres served 1960	155,414	9,240	85,184	37,800	18,520	63,053	254,888	1,260	42,598	105,90
10	Area added, 1950-1959 acres served 1960	14,020		530	23,848		200	10,140			52,664
11	Area served by two or more projects acres served 1960	640		20				11,800			
	PROJECTS, 1980, BY TYPE OF ORGANIZATION										
12	Drains owned by one landowner number of projects										
13	acres served ² ,.										·
14	Cooperative or mutual drainsnumber of projects	1		1	4			16			
15	acres served ²	1,720		550	2,888			24,800			
16	Legally organized public drainsnumber of projects	1	1	1	1	1	1	2	1	1	1
17	acres served ²	168,354	9,240	85,184	58,760	18,520	63,253	253,418	1,260	42,598	158,571
	PROJECTS, 1960, BY YEAR STARTEO										
16	1950-1959 number of projects	1		1	4			11			
19	acres served ²	1,720		550	2,888			18,740			
20	Prior to 1950number of projects	1	1	1	1	1	1	7	1	1	1
21	acres served ²	168,354	9,240	85,184	58,760	18,520	63,253	259,478	1,260	42,598	158,571
	DRAINAGE OPERATIONS, 1950-1959										
22	Cost of drainage works and servicesprojects reporting	2		2	4		1	13	1	1	1
23	erallob	479,385		9,481	661,262		185,491	357,861	164	27,805	2,245,068
24	New drainage works constructed, enlarged, or installed	2		(4)							
25	dollars	393,101		(4)	610,826		1	12	•••		1
26	Open ditches	293,101		(4)	· '		157,447	148,602			1,343,493
27	iength, miles	30.3		(4)	4		1	12			1
26	Tile or covered drains				22.7		10.3	37.6			109.0
29	length, miles				49.9				***		145.0
30	Levees or dikes								•••		2-1510
31	Levees or dixes				• • • •	*				•••	•••
32	Pumps				• • •		***			•••	•••
33	number of pumps									•••	•••
34	Other (see text)									•••	• • • • • • • • • • • • • • • • • • • •
35	Cost of maintenance, operation, repair, and			•••						•••	•••
99	administration	1		(4)	1		1	3	1	1	1
36	dollars	86,28		(4)	50,436		28,044	209,259	164	27,805	901,575

¹Lend served by two or more projects counted only once.

²Acres served by two projects are included for each project. See *xt.

³Includes projects taken over by another project prior to 1960. ** text.

⁴Included in State total only.

State Table 1.-DRAINAGE PROJECTS-NUMBER, AREA, COST, AND WORKS, 1920 TO 1960

[See text for comparability of data]

	e text for comparability of d	ike j			
ltem	1960 Census	1950 Cennus	1940 Census	1930 Census	1920 Census
AREA					
Approximate land areaacros	30,222,720	30,238,720	30,348,800	29,671,680	29,671,680
Land in farms	18,630,263	20,710,770	19,156,058	17,332,195	18,196,979
Drainage projects	590	441	271	NA.	N.
Total area in drainage projects	3,123,227	3,023,744	2,890,618	2,988,496	1,601,444
Area not used for agriculture or not drained	82,620	NA.	NA NA	NA NA	1,001,111
Net area drained and used for agriculture	3,040,607	NA NA	12,182,729	12,092,899	Nu Nu
		NA NA	2,102,729 NA	2,092,099 NA	Nu Nu
Drainage established 10 years or more before Census date	2,791,239				1
Drainage established within 10 years of Census dateacres served	249,368	NA.	NA	NA NA	N.
Area served by two or more projectsacres served	294,417	288,315	236,252	171,448	3,040
PROJECTS BY TYPE OF ORGANIZATION				-	
Drains owned by one landownernumber of projects	121	65	NA.	NA.	N/
acres served,	155,650	111,253	50,155	27,400	56,750
Cooperative or mutual drainsnumber of projects	230	127			
acres served,	292,531	140,006			
Legally organized public drains	239	249	NA NA	NA NA	N.
acres served	2,906,319	2,772,485	2,840,463	2,961,096	1,544,694
PROJECTS BY YEAR STARTED					
Started 10 years or more before Census date	393	263	NA.	NA NA	N.
acres served	2,919,182	2,760,499	2,843,135	1,874,866	259,892
Started within 10 years of Census datenumber of projects	197	178	NA.	NA.	N.A
acres served	435,318	263,245	47,483	1,113,630	1,341,552
OPERATIONS, 10-YEAR PERIOD PRECEDING CENSUS DATE					
Cost of drainage works and services	374	345	NA.	NA.	N/
dollars	9,557,061	5,702,914	NA.	NA.	N.F
New drainage works constructed, enlarged, or installed projects reporting	223	² 156	NA.	NA.	N.A
cost, dollars	3,855,591	² 441,404	NA.	NA.	N/
Open ditches. projects reporting	222	156	NA.	NA.	NA NA
length, miles	566.6	372	NA.	NA NA	NA NA
Tile or covered drains		3/2	NA.	NA NA	NA NA
	***	• • •	NA NA	NA NA	NA NA
length, miles		• • • •			
Levees or dikes	3	***	NA	NA	NA NA
length, miles	3.3	• • •	NA	NA	NA NA
Pumps	1	NA	NA	NA NA	NA NA
number of pumps	3	NA	NA	NA.	NA NA
Other (see text)	4	NA.	NA	NA.	NA NA
Cost of maintanance, operation, repair, and administration	206	NA.	NA	NA.	NA NA
dollars	5,701,470	5,261,510	NA	NA.	NA NA
STATUS ON CENSUS DATE					
Capital investment	NA NA	NA.	23,259,677	23,601,443	7,076,164
Physical works: Open disches. longth, miles	NA.	NA :	4,344.1	4,022.1	1,815.1
Tile drains length, miles	NA.	NA.	34.1	43.5	238.8
Levees and dikes. length, miles	NA.	NA NA	190.5	227.7	6.7
	NA NA	145	NA NA	5	NA NA
Pumping units	NA NA		NA	,	NA.

NA Not available.

Not fully comparable. See text.

Cost of new works for lands not previously drained.

State Table 2.-DRAINAGE

			ed and used lture, 1960	Are	a by period drains	age was establish	ed	
Size of project (Based on area of agricultural land in project)	Number of projects		Served by two	Befor	re 1950	Area added 1950-1959		
(Sound of agreement and an property		Total (acres)	or more projects (acres)	Projects reporting	Acres	Projects reporting	Acres	
All projects	590	3,354,500	608,310	487	3,102,093	137	252,407	
500 to 999 acres	222	149,764	45,973	165	109,478	70	40,286	
1,000 to 1,999 acres	122	161,464	40,059	93	122,576	34	38,888	
2,000 to 4,999 acres	114	346,550	53,251	101	292,260	25	54,290	
5,000 to 9,999 acres	53	361,648	69,967	50	334,835	6	26,81	
10,000 to 19,999 acres	41	582,586	120,700	41	582,586		•••	
20,000 to 49,999 acres	25	710,266	111,632	25	704,136	1	6,130	
50,000 to 99,999 acres	12	898,322	160,248	11	812,322	1	86,000	
100,000 or more acres	1	143,900	6,480	1	143,900			

State Table 3.-DRAINAGE PROJECTS, 1960,

		Area drained and used for agriculture, 1960		Area	by period draina	drainage was established	
Type of organization	Number of projects		Served by two	Before	1950	Area added l	950-1959
	projects	Total (acres)	or more projects (acres)	Projects reporting	Acres	Projects reporting	Acres
All projects	590	3,354,50.	608,310	487	3,102,093	137	252,40
Drains owned by one landowner	121	155,650	33,656	78	111,694	52	43,95
Cooperative or mutual drains	230	292,531	80,671	174	194,452	77	98,07
Legally organized public drains	239	2,906,319	493,983	235	2,795,947	8	110,37

State Table 4.-DRAINAGE PROJECTS, 1960,

		Area draine for agricul		Are	by period drains	inage was established	
Year of organization	Number of		Served by two	Before	1950	O Area added 1950-1959	
	projects	Total (acres)	or more projects (acres)	Projects reporting	Acres	Projecta reporting	Acres
All projects.	590	3,354,500	608,310	487	3,102,093	137	252,4
1950-1959	197	435,318	138,188	94	195,039	125	240,2
Prior to 1950	393	2,919,182	470,122	393	2,907,054	12	12,

PROJECTS, 1960, BY SIZE

			0-1959	nstalled, 195	nlarged, or i	constructed, e	New works			1950-1959	and services,	rainage works	Cost of d
er.	Ot	ps	Pum	nd dikes	Levees a	ered drains	Tile or cov	i tches	Open d	works	For new	tal	To
ects rting	pro	Number	Frojects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Frojects reporting	Dollars	Projects reporting	Dollars	Projects reporting
		3	1	3,3	3			566.6	222	3,855,591	223	9,557,061	374
				1.0	1			151.2	117	248,558	117	298,643	131
		3	1	1.5	1			106.3	55	186,807	55	251,548	78
								96.7	27	231,262	27	698,423	65
								37.0	7	104,020	7	709,637	34
1				0.8	1			36.0	5	1,006,498	6	1,915,198	33
								71.4	7	777,250	7	2,368,179	20
								68.0	4	1,301,196	4	2,844,698	12
												470,735	1

BY TYPE OF ORGANIZATION

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959										
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Ť		
Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Frojects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number	projects reporting			
9,557,061	223	3,855,591	222	566.6			3	3.3	1	3	4			
504,483	77	224,924	77	123.4			2	2.5	1	3	1			
436,062	121	412,827	121	225.8							1			
8,616,516	25	3,217,840	24	217.4			1	0.8			2	1		
	Dollars 9,557,061 504,483 436,062	tal For new Dollars Projects reporting 9,557,061 223 504,483 77 436,062 121	tal For new works Dollars Frojects reporting Dollars 9,557,061 223 3,855,991 504,483 77 224,924 436,062 121 412,827	tal For new works Open d Dollars Frojects reporting Dollars Frojects reporting 9,557,061 223 3,855,991 222 504,483 77 224,924 77 436,062 121 412,827 121	tal For new works Open ditches Dollars Frojects reporting Dollars Frojects reporting Length (siles) 9,557,061 223 3,855,991 222 566.6 504,483 77 224,924 77 123.4 436,062 121 412,827 121 225.8	tal For new works Open ditches Tile or cove Dollars Frojects reporting Dollars Frojects reporting Length (miles) Frojects reporting 9,557,061 223 3,855,591 222 566.6 504,483 77 224,924 77 123.4 436,062 121 412,827 121 225.8	tal For new works Open ditches Tile or covered drwins Dollars Frojects reporting Length (miles) Frojects reporting Length (miles) 9,587,061 223 3,855,591 222 566.6 504,483 77 224,924 77 123.4 436,062 121 412,827 121 225.8	tal For new works Open ditches Tile or covered drains Leves s Dollars Frojects reporting Dollars Frojects (miles) Frojects (miles) Length (reporting) Frojects (miles) Frojects (miles) Length (miles) Frojects (miles) Fro	Dollars	Dollars	tal For new works	tal For new works: Open ditches Tile or covered drains Levees and dikes Fumps Other, Dollars Frojects reporting Dollars Frojects (siles) Frojects Length reporting (siles) Frojects reporting 9,557,061 223 3,855,591 222 566.6 3 3.3 1 3 4 504,483 77 224,924 77 123.4 2 2.5 1 3 1 436,062 121 412,827 121 225.8		

BY YEAR OF ORGANIZATION

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959									
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other,	
Projects reporting	Dollars	Frojects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Frojects reporting	Number	projects reporting	
374	9,557,061	223	3,855,591	222	566.6			3	3.3	1	3	4	
197	3,989,985	179	3,344,481	179	436.2			1	1.5	1	3	2	
177	5,567,076	44	511,110	43	130.4			2	1.8			2	

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959 [See text for comparability of 1960 and 1950 data]

	Item and Census year	The State	Adams	Alcorn	Attala	Benton	Bolivar	Calhoun	Carroll	Chickasaw
	AREA									
1 Approximat	e land areaacres 1960	30,222,720	286,720	259,200	463,360	263,680	586,880	378,880	408,320	323,840
2 Land in far	msacres 1959	18,630,263	160,610	178,810	271,995	143,131	468,180	242,010	279,345	242,520
3 Drainage pr	ojectsnumber 1960	590	2	18	1	1	32	55	16	13
4	1950	441	1	28	5	3	26	36	14	12
5 Total area	in drainage projects 1 acres served 1960	3,123,227	700	50,062	1,000	6,881	375,740	96,338	36,884	31,090
6	1950	3,023,744	15,413	75,912	16,319	9,722	356,201	79,173	32,635	27,852
7 Ares not	used for agriculture or not drained acres served 1960	82,620		2,300		4,040	1,500			1,150
6 Net area	drained and used for agriculture acres served 1960	3,040,607	700	47,762	1,000	2,841	374,240	96,338	36,884	29,940
9 Drai:	nage established before 1950 acres served 1960	2,791,239	600	47,762	1,000	2,841	371,800	84,478	36,884	29,740
10 Area	added, 1950-1959 acres served 1960	249,368	100				2,440	11,860		200
11 Area s	erved by two or more projects acres served 1960	294,417				•••	91,845	9,520	3,230	1,005
P	ROJECTS, 1960, BY TYPE OF ORGANIZATION									
12 Drains own	ed by one landowner number of projects	121	2	5			1	3	3	
13	acres served2	155,650	700	12,875			1,000	1,650	1,895	
Cooperative	or mutual drainsnumber of projects	230		4	1		3	45	8	2
15	acres served ² .,	292,531		10,000	1,000		3,040	46,460	9,400	1,305
16 Legally org	anized public drainsnumber of projects	239		9		1	28	7	5	11
17	acres served ²	2,906,319		24,887		2,841	469,485	57,848	28,819	29,640
	PROJECTS, 1960, BY YEAR STARTED									
18 1950-1959 .	number of projects	197	2				5	19	2	1
19	acres served ²	435,318	700				4,540	26,088	1,680	720
Prior to 195	0number of projects	393		18	1	1	27	36	14	12
21	acres served ²	2,919,182		47,762	1,000	2,841	468,985	79,870	38,434	30,225
	DRAINAGE OPERATIONS, 1950-1959 ³									
Cost of dra	mage works and servicesprojects reporting	374	2	11			29	22	8	2
23	dollars	9,557,061	1,980	106,400			549,964	96,345	58,081	12,725
New draina or installe	ge works constructed, enlarged, dprojects reporting	223	2				5	18	3	1
25	dollars	3,855,591	1,980				20,366	19,373	25,315	2,725
26 Open dita	chesprojects reporting	222	2				5	18	3	1
27	length, miles	566.6	1.5				7.1	17.9	3.7	2.5
28 Tile or o	overed drainsprojects reporting									
29	length, miles							• • • •		
30 Levees c	r dikes	3					1		1	
31	length, miles	3.3					1.5		0.5	
Pumps	projects reporting	1					1			
33	number of pumps	3					3			
34 Other (se	e text)	4								
outer (se			1	i .	I	1	1		1	
35 Cost of mai	ntenance, operation, repair, and tionprojects reporting	206		11			24	5	6	1

Land served by two or more projects counted only once.
Acres served by two projects are included for each project. See text.
Fincludes projects taken over by snother project prior to 1960. See text.

County Table 1. - DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

	Item and Census year	Choc taw	Clay	Coahona	De Soto	Grenada	Hancock	Harrison	Holmes	Humphreys
	AREA									
1	Approximate land areaacree 1960	266,880	264,960	364,800	283,520	277,120	310,400	374,400	488,960	262,400
2	Land in farmsacres 1959	148,571	197,476	323,464	271,044	174,408	60,350	73,695	396,704	216,496
3	Drainage projectsnumber 1960	5	11	47	7	2	1	1	11	17
4	1950	11.	11	48	6	10	1	1	3	6
5	Total area in drainage projects acres served 1960	10,864	40,482	197,518	52,464	10,320	875	12,200	17,073	194,255
6	1950	19,503	40,312	184,281	44,014	19,279	875	12,200	86,256	179,845
7	Aree not used for agriculture or not drained acres served 1960			2,770						
8	Net area drained and used for agriculture acres served 1960	10,864	40,482	194,748	52,464	10,320	875	12,200	17,073	194,255
9	Drainage established before 1950 acres served 1960	10,864	40,332	189,553	44,014	10,320	875	12,200	12,403	191,315
10	Area added, 1950-1959 acres served 1960		150	5,195	8,450				4,670	2,940
11	Area served by two or more projects acres served $1960\dots$		620	27,326	950				650	17,104
	PROJECTS, 1960, BY TYPE OF ORGANIZATION									
12	Drains owned by one landowner number of projects		2	28			1		7	4
13	acres served ²		2,320	65,538			875		4,640	3,587
14	Cooperative or mutual drainsnumber of projects		3	3	3	1			1	6
15	acres served ²		4,673	3,850	2,100	4,944			750	6,812
16	Legally organized public drains number of projects	5	6	16	4	1		1	3	7
17	acres served 2	10,864	34,109	152,776	51,314	5,376		12,200	12,333	202,665
	PROJECTS, 1980, BY YEAR STARTED									
16	1950-1959 number of projects			5	4				8	11
19	acres served 2			5,520	17,372				5,320	17,699
20	Prior to 1950number of projects	5	11	42	3	2	1	1	3	6
21	acres served ²	10,864	41,102	216,644	36,042	10,320	875	. 12,200	12,403	195,365
	DRAINAGE OPERATIONS, 1950-1959 8									
22	Cost of drainage works and services projects reporting		3	36	5	1			9	15
23	dollars		5,500	503,677	200,101	11,042			27,133	619,290
24	New drainage works constructed, enlarged, or installed		2	14	4	1			8	13
25	dollars		2,700	59,279	27,343	9,133			20,494	254,045
26	Open ditches projects reporting		2	13	4	1			8	13
27	length, miles		8.0	29.2	9.9	0.3			9.4	31.4
26	Tile or covered drainsprojects reporting									
29	length, miles									
30	Levees or dikesprojects reporting					1				
31	length, miles					0.3				
32	Pumpeprojects reporting					• • • • • • • • • • • • • • • • • • • •				
33	number of pumpa									
34	Other (see text)projects reporting			1				•••		
35	Cost of maintenance, operation, repair, and administrationprojects reporting		2	33	3	1			1	3
36	dollars		2,800	444,398	172,758	1,909			6,639	365,245
		1	I .			ı	1			(

¹Land served by two or more projects counted only once.

²Acres served by two projects are included for each project. See text.

³Includes projects taken over by another project prior to 1960. See text.

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

	Item and Census year	Issaquena	Itawamba	Jefferson	Lafayette	Leake	Lee	Leflore	Madison	Marion
	AREA									
1	Approximate land area	265,600	346,240	332,800	387,840	375,040	291,200	376,320	480,640	352,000
2	Land in farms	113,337	181,891	205,243	254,277	221,164	212,117	334,196	348,355	217,746
3	Drainage projectsnumber 1960	2	11	1	2	2	18	33	1	2
4	1950	1	8		2	3	17	11	1	
5	Total area in drainage projects 1	79,500	32,111	1,000	6,610	6,202	47,891	103,765	2,225	1,470
6	1950	15,500	25,111		11,099	8,962	49,017	81,086	2,080	
7	Area not used for agriculture or not drained acres served 1960	1,320	3,600		2,500	• • •	• • •			
8	Net area drained and used for agriculture acres served 1960	78,180	28,511	1,000	4,110	6,202	47,891	103,765	2,225	1,470
9	Drainage established before 1950 acres served 1960	14,180	26,511		4,110	6,202	47,891	79,185	2,080	
10	Area added, 1950-1959 acres served 1960	64,000	2,000	1,000				24,580	145	1,470
11	Area served by two or more projects acres served 1960		1,046				3,381	7,516		
	PROJECTS, 1960, BY TYPE OF ORGANIZATION									
12	Drains owned by one landowner number of projects		,	1			1	11		1
13	acres served ² .			1,000			320	8,891		620
14	Cooperative or mutual drainsnumber of projects		2				1	12	1	1
15	acres served ²		7,000				1,000	18,755	2,225	850
16	Legally organized public drainsnumber of projects	2	9		2	2	16	10		
17	acres served ² ,.	78,180	22,557		4,110	6,202	49,952	83,635		
	PROJECTS, 1960, BY YEAR STARTED									
18	1950-1959number of projects	1	2	1			1	23		2
19	acres served ²	64,000	2,266	1,000			1,000	27,646		1,470
20	Prior to 1950number of projects	1	9		2	2	17	10	1.	ĺ
21	scree served ² .,	14,180	27,291		4,110	6,202	50,272	83,635	2,225	
	DRAINAGE OPERATIONS, 1950-1959 3									
22	Cost of drainage works and services projects reporting	2	4	1		1	6	33	1	2
23	dollars	659,728	36,284	3,961		3,000	71,100	228,985	3,235	2,514
	New drainage works constructed, enlarged,									
	or installed	2	2	1	•••	• • • •	2	14	1	2
25	dollars	635,696	32,500	3,961	•••	• • • •	3,200	47,455	3,235	2,514
26	Open ditches	2	2	1	•••	• • • •	2	14	1	2
27	length, miles	22.2	8.7	3.0			2.0	19.6	2.5	1.7
28	Tile or covered drainsprojects reporting		•••			•••	***	•••	•••	•••
29	length, miles	• • • •				•••	***		•••	•••
30	Levees or dikes					• • • •	***		•••	•••
31	length, miles	•						• • • •		
32	Pumpeprojects reporting							•••		•••
33	number of pumps		***	•••	• • • •				•••	
34	Other (see text)		1		***		1	•••		•••
35	Cost of maintenance, operation, repair, and administrationprojects reporting	1	2 .			1	4	19		
36	dollare	24,032	3,784			3,000	67,900	181,530		•••

Land served by two or more projects counted only once.

Acres served by two projects are included for each project. See text.

Includes projects taken over by another project prior to 1960. See text.

County Table 1.-DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

Item and Census year	Marshall	Monroe	Montgomery	Newton	Noxubee	Oktibbeha	Panola	Pearl River	Pontotoe
AREA									
Approximate land areaacres 1980	443,520	492,160	257,920	371,200	444,800	290,560	438,400	529,920	320,64
Land in farmsacres 1959	336, 147	320,027	182,875	218,195	387,402	215,641	374,614	203,122	237,0
Drainage projectsnumber 1960	1	9	8	4	7	2	30	2	
1950	4	7	8	4		2	27		
Total area in drainage projects 1	19,038	11,429	7,556	14,363	5,932	14,350	111,973	1,960	23,1
1950	19,038	10,429	13,726	14,363		14,350	111,889		20,3
Area not used for agriculture or not drained acres served 1960				1,000					٠,٠
Net area drained and used for agriculture acres served 1960	19,038	11,429	7,556	13,363	5,932	14,350	111,973	1,960	23,1
Drainage established before 1950, acres served 1960	19,038	10,429	7,006	13,363		14,350	105,943	1,000	
Area added, 1950-1959 acres served 1960		1,000	550		5,932	24,550	6,030	1,960	20,5
Area served by two or more projectsacres served 1960		960			.,,,,,,	100	19,330		2,5
					***	100	19,550	• • • • • • • • • • • • • • • • • • • •	
PROJECTS, 1960, BY TYPE OF ORGANIZATION									
Drains owned by one landowner number of projects		1			5		6		
acres served ²		500			3,652		4,200		
Cooperative or mutual drainsnumber of projects		1	7	1	2		12	2	
acres served ²		500	5,850	860	2,280		12,609	1,960	2,0
Legally organized public drainsnumber of projects	1	7	1	3		2	12		
acres served ²	19,038	11,389	1,706	12,503		14,450	116,844		21,1
PROJECTS, 1960, BY YEAR STARTED									
1950-1959	1	2	1		7		6	2.	
actes served2	19,038	1,000	550		5,932				
Prior to 1950number of projects		7,000	7	4			7,350	1,960	7,0
acres served ²		11,389	7,006			2	26	***	
arto serrou		11,389	7,006	13,363	***	14,450	126,303	• • • •	16,1
DRAINAGE OPERATIONS, 1950-1959 8									
Cost of drainage works and servicesprojects reporting	1	3	1	3	7	1	20	2	
dollars	80,850	20,400	4,125	15,750	8,697	1,132	127,659	2,767	165,2
New drainage works constructed, enlarged,									
or installedprojects reporting		2	1	***	7	• • • •	14	2	
dollars		2,600	4,125	•••	8,197		29,525	2,767	20,0
Open ditchesprojects reporting	•••	2	1	• • •	7		14	2	
length, miles		2.1	2.7	•••	5.9		13.3	4.2	17
Tile or covered drainsprojects reporting	•••		•••	****					
length, miles					***				
Levees or dikes									
length, miles	• • • •								
Pumpsprojects reporting									
number of pumps									
Other (see text)									
Cost of maintenance, operation, repair, and	1								
administrationprojects reporting	- 1	1		3	2	1	6		
erallob	80,850	17,800	***1	15,750	500	1,132	98,134		145,2

Land served by two or more projects counted only once.

Acres served by two projects are included for each project. See text.

Fincludes projects taken over by another project prior to 1960. See text.

County Table 1. - DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

Item and Census year	Prentiss	Quitmen	Scott	Sharkey	Sunflower	Talla- hatchie	Tate	Tippah	Tishomingo
AREA									
1 Approximate land areaacres 1960	267,520	263,680	393,600	279,040	1443,520	412,160	245,120	296,960	288,640
2 Land in farms	191,386	234,363	217,353	144,240	¹ 449,994	336,764	225,315	210,509	130,451
3 Drainage projectsnumber 1960	18	34	1	9	60	22	9	14	3
4 1950	17	18	2	5	49	14	9	14	3
5 Total area in drainage projects 2	27,528	187,430	3,260	112,246	172,249	200,346	49,807	23,048	4,456
6 1950	27,574	185,430	10,619	101,586	164,011	190,098	49,707	21,901	4,456
7 Area not used for agriculture or not drained acres served 1960	1,300			10,100		7,800		1,800	
8 Net area drained and used for agriculture acres served 1960	26,228	187,430	3,260	102,146	172,249	192,546	49,807	21,248	4,456
9 Drainage established before 1950 acres served 1960	26,228	185,430	3,260	91,486	160,481	188,418	49,707	19,904	4,456
10 Area added, 1950-1959 acres served 1960		2,000		10,660	11,768	4,128	100	1,344	
Area served by two or more projectsacres served 1960	1,386	37,320		7,600	11,887	7,968	1,260		180
PROJECTS, 1960, BY TYPE OF ORGANIZATION									
12 Drains owned by one landowner number of projects	1	1			6	4			
13 acres served ³	320	254			4,480	6,903			
14 Cooperative or mutual drains		14		2	37	8	3		
acres served ³		13,700		760	37,443	7,778	2,180		
16 Legally organized public drainsnumber of projects	17	19	1	7	17	10	6	14	3
acres served ³	27,294	213,927	3,260	108,986	142,213	185,833	48,887	21,248	4,636
PROJECTS, 1960, BY YEAR STARTED									
18 1950-1959 number of projects	1	16		4	11	9	1	1	
19 acres served ³	1,046	42,680		18,260	21,060	12,696	1,360	1,344	
20 Prior to 1950number of projects	17	18	1	5	49	13	8	13	3
21 acres served ³	26,568	185,201	3,260	91,486	163,076	187,818	49,707	19,904	4,636
DRAINAGE OPERATIONS, 1950-1959 4									
22 Cost of drainage works and servicesprojects reporting	14	28	1	8	25	17	6	5	2
23 dollars	49,072	814,755	1,150	566,527	310,950	323,034	91,550	79,923	7,250
24 New drainage works constructed, enlarged, or installedprojects reporting	2	16		4	11	10			
25 dollars	15,100	638,361		440,396	77,442	80,968			
26 Open ditchesprojects reporting	2	16		4	11	10			
27 length, miles	5.0	58.1		17.4	24.9	24.6			
28 Tile or covered drainsprojects reporting									
29 length, miles									
30 Levees or dikesprojects reporting									
31 length, miles									
32 Pumpeprojects reporting									
33 number of pumps								•••	
84 Other (see text)projects reporting					1				
35 Cost of maintenance, operation, repair, and administration	12	12	1	4	14	8	6	5	2
administrationprojects reporting	33,972	176,394	1,150	126,131	233,508	242,066	91,550	79,923	7,250
oollars	35,312	170,594	1,130	120,131	235,500	2-2,000	1,550	,,,,	.,25

The excess of farm screage over approximate land area is due to the fact that the entire screage of a farm is tabulated as in the county in which the beadquarters is located, even though a part of the farm may be situated in an adjoining county.

Fland served by two or more projects counted only once. See text.

Acres served by two projects are included for each project. See text.

Linchluser projects Valen over by another project prior to 1960. See text.

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

===										
	Item and Census year	Tunica	Union	Warren	Washington	Webster	Winston	Yalobusha	Yazoo	All other counties1
	AREA									
1	Approximate land area	293,120	270,080	362,240	465,920	266,240	387,840	315,520	600,320	1,159,040
2	Land in ferms	208,984	183,900	221,347	377,815	165,974	219,507	193,187	422,092	615,039
3	Drainage projectsnumber 1960	25	11	2	15	14	3	3	48	***
4	1950	9	1	2	7	10	3	5	9	8
5	Total area in drainage projects ²	130,941	41,202	1,300	375,009	16,322	17,067	4,794	130,985	
6	1950	102,345	835	1,300	369,361	14,933	17,067	16,821	103,445	45,432
7	Area not used for agriculture or not drained acres served 1960	·			9,960				31,480	
8	Net area drained and used for agriculture acres served 1960	130,941	41,202	1,300	365,049	16,322	17,067	4,794	99,505	
9	Drainage established before 1950 acres served 1960	102,185	38,797	1,300	351,009	13,642	17,067	4,794	75,225	
10	Area added, 1950-1959 acres served 1960	28,756	2,405		14,040	2,680			24,280	
11	Area served by two or more projects acres served 1960	3,914	500			600	•••			
11	Area served by two or more projects acres served 1800	3,914	500		9,350	600	***	•••	27,869	
	PROJECTS, 1960, BY TYPE OF ORGANIZATION									
12	Drains owned by one landowner number of projects	1			1	3			26	
13	acres served ³	500			750	1,560			26,620	
14	Cooperative or mutual drainsnumber of projects	18		2	7	6	1		15	
15	acres served ³	48,197		1,300	11,890	4,320	1,200		13,540	
16	Legally organized public drainsnumber of projects	6	11		7	5	2	3	7	
17	acres served ³	86,158	41,702		361,759	11,042	15,867	4,794	91,874	
	A.									
	PROJECTS, 1960, BY YEAR STARTED									
18	1950-1959 number of projects	16	2		8	5			37	
19	acres served	42,237	3,574		23,390	2,680	• • •		45,140	•••
20	Prior to 1950number of projects	9	9	2	7	9	3	3	11	
21	acres served ³	92,618	38,128	1,300	351,009	14,242	17,067	4,794	86,894	
	DRAINAGE OPERATIONS, 1950-1959 4									
22	Cost of drainage works and servicesprojects reporting	21	4		14	5		1	48	
23	dollars	87,886	825,217		1,942,747	6,958		1,650	820,704	
24	New drainage works constructed, enlarged, or installedprojects reporting	14	2		8	5			45	
25	dollars	56,274	41,000		563,553	6,958			696,991	
26	Open ditchesprojects reporting	14	2		8	5			45	
27	length, miles	29.9	6.5		51.2	3,3			119.9	
28	Tile or covered drams									
29	length, miles									
									1	
30	Levees or dikesprojects reporting	•••	•••						1.0	•••
31	length, miles		•••				***	•••		•••
32	Pumpsprojects reporting	•••	•••							•••
83	number of pumps		•••		•••					
34	Other (see text)								•••	• • • •
35	Cost of maintenance, operation, repair, and administrationprojects reporting	9	4		8			1	32	
36	dollars	31,612	784,217		1,379,194			1,650	123,713	

Includes Franklin, Neshoba, and Wilkinson counties.

Land served by two or more projects counted only once.

Arces aerved by two projects are included for each project. See text.

Includes projects taken over by another project prior to 1960. See text.

State Table 1. –DRAINAGE PROJECTS-NUMBER, AREA, COST, AND WORKS, 1920 TO 1960

See text for comparability of data

New tout for comparability of data												
ltem .	1960 Census	1950 (* n tu	1940 'en u	1930 Censul	1950 Census							
AREA												
Approximate land area	44,248,320	44,304,640	44,332,800	43,985,280	43,985,28							
Land in farmsacres	33,155,226	35,123,143	34,733,598	33,743,019	34,774,67							
Drainage projectsnumber	425	318	286	AM	N							
Total area in drainage projects	3,123,416	3,147,484	3,087,063	3,150,022	,596,20							
Area not used for agriculture or not drainedacres served	26,100	NA.	NA.	AM	N							
Net area drained and used for agricultureacres served	3,097,316	NA.	12,673,169	12,427,599	N							
Drainage established 10 years or more before Census date	3,059,174	NA	NA.	NA.	N							
Drainage established within 10 years of Census dateacres served	38,142	NA	NA.	NA.	N							
Area served by two or more projects	517,507	671,651	1,347,916	961,548	509,68							
PROJECTS BY TYPE OF ORGANIZATION												
	55	1	NA.									
Drains owned by one landownernumber of projects				NA.	N							
acres served . Cooperative or mutual drains	42,154	4,250	5,600	1,955	9,89							
	57.739	5,290		***								
acres served Legally organized public drainsnumber of projects	314	315	NA.	 NA	N.							
				1								
acres served	3,570,736	3,137,944	3,081,463	3,140,067	2,586,30							
PROJECTS BY YEAR STARTED												
Started 10 years or more before Census date	314	304	NA.	NA.	N/							
acres served	3,502,665	3,101,104	3,025,591	2,676,021	²1,723,31°							
Started within 10 years of Census datenumber of projects	111	14	NA.	NA.	N							
acres served	167,964	46,380	61,472	474,001	² 866, 1 5							
OPERATIONS, 10-YEAR PERIOD PRECEDING CENSUS DATE												
Cost of drainage works and services projects reporting	302	225	NA.	NA.	N.							
dollar«	12,138,381	8,281,620	NA.	NA.	N/							
New drainage works constructed, enlarged, or installed projects reporting	117	39	NA.	NA.	N/							
cost, dollar«	936,412	³ 114,063	NA.	NA.	N/							
Open ditches. projects reporting.	113	8	NA.	NA.	NJ.							
length, miles	296.7	30	NA.	NA.	NJ.							
Tile or covered drains, projects reporting	36		NA.	NA.	N/							
length, miles	8.5		NA.	NA.	NJ.							
Levees or dikes projects reporting	13	4	NA.	NA.	N							
length, miles	42.6	17	NA.	NA.	N/							
Pumps projects reporting	3	NA.	NA.	NA.	N/							
number of pumps	5	NA.	NA.	NA.	N/							
Other (see text)projects reporting.	8	NA I	NA.	NA.	N/							
Cost of maintenance, operation, repair, and administration	224	NA.	NA	NA.	N.							
dollars	11,201,969	8,167,557	NA.	NA.	N							
STATUS ON CENSUS DATE												
Capital investmentdollars	NA NA	NA.	49,050,414	47,340,174	20,723,128							
Physical works: Open discheslength, miles	NA i	NA	5,191.5	4,960.5	3,438.5							
Tile drains length, miles	NA	NA :	170.3	123.4	38.8							
Levees and dikeslength, miles	NA	NA NA	687.1	931.4	456.9							
Pumping unitsnumber of units	NA.	16	16	16	14							

NA Mot available.
Not fully comparable. See text.
21207 (igures exclude 6,736 acres for which date of organization was not reported.
2cost of new works for lands not previously drained.

State Table 2.-DRAINAGE

			ed and used lture, 1960	Ares	by period drains	ge was establishe	rd.
Size of project (Based on area of agricultural land in project)	Number of projects		Served by two	Befor	e 1950	Ares added	1950-1959
,		Total (acres)	or more projects (scres)	Projects reporting	Acres	Projects reporting	Acres
All projects	425	3,670,629	1,090,820	402	3,624,790	36	45,8
500 to 999 acres	99	65,228	41,329	91	59,856	12	5,5
1,000 to 1,999 acres	85	118,155	36,513	74	102,757	15	15,3
2,000 to 4,999 acres	108	331,669	87,416	105	322,232	4	9,4
5,000 to 9,999 acres	50	345,052	46,421	49	338,071	2	6,9
10,000 to 19,999 acres	43	603,643	165,130	43	600,939	2	2,
20,000 to 49,999 acres	29	847,008	300,235	29	847,008		
50,000 to 99,999 acres	8	527,879	166,323	8	521,932	1	5,9
100,000 or more acres	3	831,995	247,453	3	831,995		

State Table 3.-DRAINAGE PROJECTS, 1960,

		Ares draine for agricul		Area	by period draina	ge was established	
Type of organization	Number of projects	Total	Served by two	Before	1950	Area added 1	950-1959
	-	(acres)	or more projects (acres)	Projects reporting	Acres	Projects reporting	Acres
All projects	425	3,670,629	1,090,820	402	3,624,790	36	45,8
Drains owned by one landowner	55	42,154	33,504	48	35,864	8	6,2
Cooperative or mutual drains	56	57,739	37,292	45	44,434	19	13,3
Legally organized public drains	314	3,570,736	1,020,024	309	3,544,492	9	26,2

State Table 4.-DRAINAGE PROJECTS, 1960,

		Area draine for agricul		Are	by period drain	age was establish	ed
Year of organization	Number of projects		Served by two	Befor	≥ 1950	Ares added	1950-1959
	projects	Total (acres)	or more projects (acres)	Projects reporting	Acres	Projects reporting	Acres
All projects	425	3,670,629	1,090,820	402	3,624,790	36	45,83
1950-1959	111	167,964	129,510	88	126,679	32	41,28
Prior to 1950	314	3,502,665	961,310	314	3,498,111	4	4,55
					1		

PROJECTS, 1960, BY SIZE

			0-1959	nstalled, 195	nlarged, or i	constructed, e	New works			1950-1959	and services,	rainage works	Cost of d
	Uther.	m ps	Pur	and dikes	Levees a	ered drains	Tile or cov	itches	Open d	works	For new	tal	To
	projects reporting	Number	Frojects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting
8		5	3	42.6	13	8.5	36	296.7	113	936,412	117	12,138,381	302
				7.2	3	2.4	24	147.7	69	224,347	69	266,622	79
3		2	1	14.7	4	5.8	9	86.1	27	184,131	27	384,468	55
2				6.8	4	0.2	2	38.2	10	134,933	11	1,038,074	71
2				13.9	2	0.1	1	16.0	5	167,875	7	708,351	29
		2	1					1.2	1	25,126	2	1,438,395	31
												2,248,600	27
1		1	1					7.5	1	200,000	1	1,672,515	7
												4,381,356	3

BY TYPE OF ORGANIZATION

Cost of d	rainage works	and services,	1950-1959			New works	constructed, e	nlarged, or	Installed, 19	50-1959		
To	otal	For new	works	Open d	itches	Tile or cove	red drains	Levees t	und dikes	Fump	s	Other,
Projects reporting	Dollars	Projects reporting	Dollars	Frojects reporting	Length (miles)	Frojects reporting	Length (miles)	Frojects reporting	Length (miles)	Projects reporting	Number	projects reporting
302	12,138,381	117	936,412	113	296.7	36	8.5	13	42.6	3	5	8
55	249,713	52	205,748	52	150.9	16	6.5	3	7.2			1
55	279,271	48	211,849	48	101.0	20	2.0	3	10.6	1	2	1
192	11,609,397	17	518,815	13	44.8			7	24.8	2	3	6

BY YEAR OF ORGANIZATION

Cost of	drainage works	and services,	1950-1959		New works constructed, enlarged, or installed, 1950-1959									
To	otal	For ne	w works	Open d	itches	Tile or cov	ered drains	Levees a	nd dikes	Pu	m ps	Other,	7	
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Frojects reporting	Length (miles)	Frojects reporting	Number	projects reporting		
302	12,138,381	117	936,412	113	296.7	36	8.5	13	42.6	3	5	8	3	
111	1,113,511	105	823,778	105	271.3	36	8.5	9	31.2	2	3	5	,	
191	11,024,870	12	112,634	8	25.4			4	11.4	1	2	3	,	
191	11,024,870	12	112,634	8	25.4			4	11.4	1	2		3	

County Table 1. –DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

[See text for comparability of 1960 and 1950 data]											
	Item and Census year	The State	Adair	Andrew	Atchison	Bates	Bollinger	Boone	Buchanan	Butler	Caldwell
	AREA										
1	Approximate land areaacres 1960	44,248,320	367,360	278,400	351,360	538,240	395,520	437,120	258,560	456,960	275,200
	Land in farmsacres 1959	33,155,226	323,702	257,607	318,812	480,928	253,254	349,579	213,482	258,621	258,010
3	Drainage projectsnumber 1960	425	5	12	23	2	1	1	3	5	
4	1950	318	4	12	19	2	1	1	4	6	
5	Total area in drainage projects 1	3,123,416	20,414	26,403	80,802	48,933	27,820	519	25,767	238,471	3,467
6	1950	3,147,484	12,065	32,143	71,355	48,933	35,219	519	15,992	238,471	3,46
7	Area not used for agriculture or not drained acres served $1960\ldots$	26,100					5,500			900	
8	Net area drained and used for agriculture acres served 1960	3,097,316	20,414	26,403	80,802	48,933	22,320	519	25,767	237,571	3,462
9	Drainage established before 1950 acres served 1960	3,059,174	20,414	25,203	74,855	48,933	22,320	519	25,767	237,571	3,46
10	Area added, 1950-1959 acres served 1960	38,142		1,200	5,947					• • • •	
11	Area served by two or more projects acres served 1960	517,507		400	57,499					2,160	
	PROJECTS, 1960, BY TYPE OF ORGANIZATION										
19	Drains owned by one landowner	55		,							
13	acres served ²	42,154		600							
- 1	Cooperative or mutual drains	56		1							
15	acres served ²	57,739		1,000							
	Legally organized public drainsnumber of projects	314	. 5	10	23	2	. 1	1	3	5	
17	acres served ²	3,570,736	20,414	25,203	139,201	48,933	22,320	519	25,767	239,731	3,462
	PROJECTS, 1960, BY YEAR STARTED										
	1950-1959	111		2	3		•••		•••		
19 20	acres served Pnor to 1950number of projects	167,964		1,600	59,214					5	
20	Prior to 1950number or projects	3,502,665	20,414	25,203	79,987	48,933	22,320	519	25,767	239,731	3,46
	actes serven	3,502,005	20,414	203,000	77,707	40,733	22,320	717	25,101	257,151	3,40
	DRAINAGE OPERATIONS, 1950-1959		1								
22	Cost of drainage works and servicesprojects reporting	302	1	7	11	2	1		3	4	
23	dollars	12,138,381	12,000	42,168	506,170	6,580	124,239		97,451	681,937	
24	New drainage works constructed, enlarged, or installed	117		3	4						
25	dollars	936,412		14,668	208,000						
26	Open ditchesprojects reporting	113		3	4						
27	length, miles	296.7		5.6	15.5						
28	Tile or covered drainsprojects reporting	36									
29	length, miles	8.5									
30	Levees or dikes	13		1							
31	length, miles	42.6		5.0			· · ·				
32	Pumpeprojects reporting	3			1						
88	number of pumps	5			1			• • •			
34	Other (see text)	8			1						
35	Cost of maintenance, operation, repair, and administrationprojects reporting	224	1	6	10	2	1		3	4	
36	dollars	11,201,969	12,000	27,500	298,170	6,580	124,239		97,451	681,937	
			1			,	,		,,,,,	, , , ,	1

Land served by two or more projects counted only once.
Acres served by two projects are included for each project. See text.
Includes projects taken over by another project prior to 1960. See text.

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$County\ Table\ 1.-DRAINAGE\ PROJECTS,\ 1960\ AND\ 1950;\ AND\ OPERATIONS,\ 1950-1959$

=											
	Item and Consus year	Callaway	Cape Girardeau	Carroll	Ceass	Chariton	Clark	Clay	Daviess	De Kalb	Dunklin
	AREA										
1	Approximate land areascres 1960	534,400	368,640	444,160	446,720	485,760	325,760	264,320	360,320	270,720	347,520
2	Land in farmsacres 1959	416,390	306,651	411,900	398,600	418,576	290,241	207,232	328,020	247,738	309,990
3	Drainage projectsnumber 1960	5	12	8	1	14	n	2	8	2	40
4	1950	5	3	6	1	15	9	1	3	2	26
5	Total area in drainage projects	6,040	45,060	81,649	15,385	60,536	38,120	5,891	38,528	3,100	261,254
5	1950	6,040	47,350	78,972	15,385	62,266	35,600	5,183	38,478	3,000	265,957
7	Area not used for agriculture or not drained acres served 1980			12,800							
8	Net area drained and used for agriculture acres served 1980	6,040	45,060	68,849	15,385	60,536	38,120	5,891	38,528	3,100	261,254
9	Drainage established before 1950 acres served 1960	6,040	43,495	66,172	15,385	60,536	35,600	5,183	38,478	3,000	259,234
10	Area added, 1950-1959 acres served 1960		1,565	2,677			2,520	708	50	100	2,020
11	Area served by two or more projects acres served 1960		8,948	28,965		7,264			4,215		73,621
	PROJECTS, 1960, BY TYPE OF ORGANIZATION										
12	Drains owned by one landowner						1 1				2
13	acres served ² ,,						1,360				1,240
14	Cooperative or mutual drainsnumber of projects		9				1		. 5	2	12
15	acres served ²	٠	7,915				1,160		4,265	3,100	13,210
18	Legally organized public drains number of projects	5	3	8	1	14	9	2	3		26
17	acres served ²	6,040	46,093	97,814	15,385	67,800	35,600	5,891	38,478		333,905
	PROJECTS, 1960, BY YEAR STARTED										
18	1950-1959		9	2			2	1	5		14
19	acres served ²		7,915	2,677			2,520	708	4,265	•••	14,450
20	Prior to 1950	5	3	6	1	14	9	1	3		26
21	acres served ²	6,040	46,093	95,137	15,385	67,800	35,600	5,183	38,478	3,100	333,905
	DRAINAGE OPERATIONS, 1950-1959 3										,
22	Cost of drainage works and services projects reporting	3	11	8	1	10	4	2	6	(4)	40
23	dollars	13,883	270,330	256,178	10,310	546,864	218,677	99,933	27,047	(4)	1,087,684
24	New drainage works constructed, enlarged,			,		,		,	21,041	1	1,007,004
	or installedprojects reporting		9	2		1	3	1	3	(4)	13
25	dollars		53,946	69,376	•••	8,500	27,147	8,496	13,000	(4)	63,900
26	Open ditchesprojects reporting	•••	9	2	• • • •	1	2	1	3	(4)	13
27	leogth, miles	•••	19.8	9.7		0.5	2.5	1.6	5.2	(4)	42.6
28	Tile or covered drainsprojects reporting	•••	3	•••			•••				10
29	length, miles	•••	0.3	•••		•••		•••			1.0
30	Levees or dikesprojects reporting	•••	•••	2		1	1		•••		
81 32	length, miles	•••		6.8		0.5	2.0	•••			
82 83	Pumps	• • • •		•••			2	•••	•••		•••
84		•••			•••		4		•••		
35	Other (see text)	•••		2	•••	1	•••		•••	•••	•••
00	administrationprojects reporting	3	4	8	1	10	4	1	6		27
36	dollars	13,883	216,384	186,802	10,310	538,364	191,530	91,437	14,047		1,023,784

land served by two or more projects counted only once.
Acres served by two projects are included for each project. See text.
Includes projects taken over by another project prior to 1960. See text.
included in State total only.

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

_											
	Item and Census year	Franklin	Gentry	Grundy	Harrison	Henry	Holt	Howard	Jackson	Johnson	Knox
	AREA										
1	Approximate land areancres 1960	596,480	312,320	278,400	460,800	471,680	296,960	300,160	385,920	528,640	327,680
2	Land in farmsacres 1959	401,964	292,671	251,343	427,462	401,370	254,160	262,472	230,898	456,253	300,616
3	Drainage projectsnumber 1960	2	5	12	6	2	10	2	4	3	5
4	1950	1	4	12	3	2	9	3	4	3	5
5	Total area in drainage projects 1 acres served 1960	5,380	27,759	57,627	23,318	11,513	43,161	4,012	9,090	28,262	7,365
6	1950	4,380	27,759	57,627	22,718	11,513	42,229	5,579	9,551	28,262	7,365
7	Area not used for agriculture or not drained acres served 1960										
в	Net area drained and used for agriculture acres served 1960	5,380	27,759	57,627	23,318	11,513	43,161	4,012	9,090	28,262	7,365
9	Drainage established before 1950 acres served 1960	4,380	27,759	57,627	22,718	11,513	43,161	4,012	9,090	28,262	7,365
10	Area added, 1950-1959 acres served 1960	1,000			600						
11	Area served by two or more projects acres served 1960	•••								1,250	
	PROJECTS, 1980, BY TYPE OF ORGANIZATION										
12	Drains owned by one landowner number of projects	1	1		1						
13	acres served ²	1,000	670		640						
14	Cooperative or mutual drainsnumber of projects				2				1		
15	acres served ²				1,240				1,500		
16	Legally organized public drainsnumber of projects	1	4	12	3	2	10	2	3	3	5
17	acres served ²	4,380	27,089	57,627	21,438	11,513	43,161	4,012	7,590	29,512	7,365
	PROJECTS, 1960, BY YEAR STARTED										
16	1950-1959 number of projects	1			3		1				
19	acres served ²	1,000			1,880		7,086				
20	Prior to 1950number of projects	1	5	12	3	2	9	2	4	3	5
21	acres served ²	4,380	27,759	57,627	21,438	11,513	36,075	4,012	9,090	29,512	7,365
	DRAINAGE OPERATIONS, 1950-1959										
22	Cost of drainage works and servicesprojects reporting	2	(4)		3		5	2	3	2	3
23	dollars	75,969	(4)		20,500		298,430	16,394	103,122	6,723	4,100
24	New drainage works constructed, enlarged, or installed	1	(4)		3		1				
25	dollars	7,469	(4)		20,500		1,000				
26	Open ditchesprojects reporting	1	(4)		3		1,000				
27	length, miles	2.3	(4)		8.2		1.0				l
28	Tile or covered drains										
29	length, miles										
30	Levees or dikes		(4)								
81	length, miles		(4)								
32	Pumpsprojects reporting										
33	number of pumps										
34	Other (see text)	1									
35	Cost of maintenance, operation, repair, and										
	administration	1	• • •				5	2	3	2	3
36	dollars	68,500					297,430	16,394	103,122	6,723	4,100

¹Land served by two or more projects counted only once.

²Acres served by two projects are included for each project. See text.

³Includes projects taken over by another project prior to 1960. See text.

⁴Included in State total only.

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

	Item and Consus year	Lafayette	Lewis	Lincoln	Linn	Livingston	Macon	Marion	Mercer	Missis- sippi	New Madrid
	AREA										
1	Approximate land areaacres 1960	405,760	323,200	402,560	399,360	341,120	520,960	281,600	291,840	263,040	434,560
2	Land in farmsscres 1969	372,740	288,850	308,600	358,003	305,742	442,904	252,620	262,481	227,676	365,779
3	Drainage projectsnumber 1960	6	7	8	2	5	3	8	7	13	23
4	1950	5	7	7	3	5	3	3	6	11	27
5	Total area in drainage projects	12,662	20,836	27,244	17,718	88,095	27,737	24,223	18,118	228,793	368,596
6	1950	10,219	20,836	27,244	17,735	88,175	27,737	23,173	18,118	238,820	388,315
7	Area not used for agriculture or not drained acres served 1960						1			1,900	
8	Net area drained and used for agriculture acres served 1960	12,662	20,836	27,244	17,718	88,095	27,737	24,223	18,118	226,893	368,596
9	Drainage established before 1950 acres served 1960	10,073	20,836	27,244	17,718	88,095	27,737	23,173	18,118	226,893	368,596
10	Area added, 1950-1959 acres served 1960	2,589						1,050			
11	Area served by two or more projects acres served 1960	·		764				4,060	900	103,249	130,258
								.,		,-	,
	PROJECTS, 1960, BY TYPE OF ORGANIZATION										
12	Drains owned by one landowner number of projects			1				5	1		***
13	acres served ²			764				5,110	500		
14	Cooperative or mutual drainsnumber of projects					•••					3
15	acres served ² .,										5,047
16	Legally organized public drains number of projects	6	7	7	2	5	3	3	6	13	20
17	acres served ²	12,662	20,836	27,244	17,718	88,095	27,737	23,173	18,518	349,652	511,103
	PROJECTS, 1960, BY YEAR STARTED										
16	1950-1959	1		1				5	1		3
19	actes served ²	2,589		764				5,110	500		5,047
20	Prior to 1950number of projects	5	7	7	2	5	3	3	6	13	20
21	acres served ²	10,073	20,836	27,244	17,718	88,095	27,737	23,173	18,518	349,652	511,103
	DRAINAGE OPERATIONS, 1950-1959 *	·			·		,	ŕ			
99	Cost of drainage works and services	5	4					В	3	13	20
23	dollars	43,323	73,100	179,960				273,020	4,200	299,289	1,918,807
24	New drainage works constructed, enlarged,	13,363	,	1.7,700				273,020	1,200	277,207	1,720,007
	Or installedprojects reporting	2	1	1			•••	4	(4)	1	3
25	dollars	35,579	1,873	14,478			•••	31,500	(4)	3,600	16,520
28	Open ditchesprojects reporting	1		1				4	(4)	1	3
27	length, miles	3.4		11.8				23.5	(4)	0.7	13.0
28	Tile or covered drainsprojects reporting		1					2			2
29	length, miles		0.1					5.1			0.2
30	Levees or dikesprojects reporting	2							(4)		
31	length, miles	10.4							(4)		
32	Pumpsprojects reporting										
33	number of pumps										
34	Other (see text)projects reporting		1								
35	Cost of maintenance, operation, repair, and administrationprojects reporting	5	4	7				6	2	13	17
36	administrationprojects reporting dollars	7,744	71,227	165,482				241,520	200		i
36	ootiars	1, 144	11,227	100,482				241,520	200	295,689	1,902,287

Land served by two or more projects counted only once.
Acres served by two projects are included for each project. See text.
Includes projects taken over by another project prior to 1960. See text.
Included in State total only.

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959 [See text for comparability of 1980 and 1950 data]

	Item and Census year	Nodaway	Osage	Pemiscot	Perry	Pettis	Pike	Platte	Putnam	Ray	Ripley
	AREA										
1	Approximate land areaacres 1960	561,280	384,640	312,320	304,640	434,560	435,840	268,800	331,520	367,360	408,960
2	Land in farms	544,796	331,842	289,786	255,426	403,797	371,254	219,789	297,327	314,601	162,578
3	Drainage projectsnumber 1960	16	2	47	1		4	2	3	10	3
4	1950	15	2	14	1	1	4	2	3	7	3
5	Total area in drainage projects 1	51,682	1,701	275,790	18,480		16,912	7,329	1,700	32,183	22,359
6	1950	50,763	1,701	274,090	18,480	2,000	16,912	7,638	1,700	24,598	22,359
7	Area not used for agriculture or not drained acres served 1960						• • • •				•••
6	Net area drained and used for agriculture acres served 1960	51,682	1,701	275,790	18,480		16,912	7,329	1,700	32,183	22,359
9	Drainage established before 1950 acres served 1960	50,682	1,701	274,090	18,480		16,912	7,329	1,700	25,814	22,359
0	Area added, 1950-1959 acres served 1960	1,000		1,700		• • •				6,369	• • • • • • • • • • • • • • • • • • • •
1	Area served by two or more projects acres served 1960	•••		43,322							• • •
	PROJECTS, 1960, BY TYPE OF ORGANIZATION										
12	Drains owned by one landowner number of projects			25			1				
13	acres served ²			15,380			1,050				
14	Cooperative or mutual drainsnumber of projects	1		8			1				
15	acres served ²	1,000		4,850			2,290				
16	Legally organized public drainsnumber of projects	15	2	14	1		2	2	3	10	3
17	acres served ²	50,682	1,701	301,802	18,480		13,572	7,329	1,700	32,183	22,359
	PROJECTS, 1960, BY YEAR STARTED										
16	1950-1959 number of projects	1		32						2	
19	acres served ² .,	1,000		19,730						6,369	
20	Prior to 1950 number of projects	1.5	2	15	1		4	2	3	8	3
21	acres served ²	50,682	1,701	302,302	18,480		16,912	7,329	1,700	25,814	22,359
	DRAINAGE OPERATIONS, 1950-1959 8										
22	Cost of drainage works and services projects reporting	3	1	45	1		4	2	1	8	
23	dollars	11,250	7,081	2,177,652	18,416		91,600	44,300	3,500	229,986	
24	New drainage works constructed, enlarged, or installedprojects reporting	(4)		32						2	
25	dollars	(4)		55,212						115,230	
26	Open ditchesprojects reporting	(4)		32						2	
27	length, miles	(4)		45.8						7.4	
28	Tile or covered drainsprojects reporting	(4)		15							
29	length, miles	(4)		1.5							
30	Levees or dikes	(4)								2	
31	length, miles	(4)								4.9	• • •
32	Pumpeprojects reporting										
33	number of pumps										
4	Other (see text)projects reporting									1	• • • • • • • • • • • • • • • • • • • •
35	Cost of maintenance, operatino, repair, and administration	3	1	23	1		4	2	1	7	
36	dollars	3,750	7,081	2,122,440	18,416		91,600	44,300	3,500	114,756	

¹Land served by two or more projects counted only once.

²Acres served by two projects are included for each project. See text.

³Includes projects taken over by another project prior to 1960. See text.

⁴Included in State total only.

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County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

_											
	Item and Consus year	St. Charles	St. Louis	Saline	Schuyler	Scotland	Scott	Shelby	Stoddard	Sullivan	Worth
	AREA										
1	Approximate land areaacres 1960	359,040	318,080	485,760	195,840	282,240	267,520	321,280	535,680	418,560	170,880
2	Land in farmsacres 1959	271,667	118,096	442,953	173,234	255,948	247,760	297,780	417,967	391,558	159,234
3	Drainage projectsnumber 1960	11	2	7	4	8	12	5	44	2	4
4	1950	7	3	11	4	9	12	3	29	2	2
5	Total area in drainage projects 1	26,888	2,967	29,250	9,125	21,330	151,025	11,382	339,066	11,282	13,302
6	1950	25,588	11,933	45,073	9,125	21,330	151,368	9,632	335,641	11,282	12,526
7	Area not used for agriculture or not drained acres served $1960\ldots$								5,000		
8	Net area drained and used for agriculture acres served $1980\ldots$	26,888	2,967	29,250	9,125	21,330	151,025	11,382	334,066	11,282	13,302
9	Drainage established before 1950 acres served 1960	25,588	1,967	29,250	9,125	21,330	150,768	9,632	331,326	11,282	13,302
10	Area added, 1950-1959 acres served 1960	1,300	1,000				257	1,750	2,740		
11	Area served by two or more projects acres served $1980\ldots$	1,300		520			14,158	2,350	31,754		550
	PROJECTS, 1960, BY TYPE OF ORGANIZATION										
12	Drains owned by one landowner number of projects	1						1	13		
13	acres served ²	500						600	12,740		
14	Cooperative or mutual drainsnumber of projects	3	1					1	4		1
15	acres served ² .,	2,100	1,000					1,750	5,762		550
16	Legally organized public drains number of projects	7	1	7	4	8	12	3	27	2	3
17	acres served ²	25,588	1,967	29,770	9,125	21,330	165,183	11,382	349,018	11,282	13,302
	PROJECTS, 1960, BY YEAR STARTED										
18	1950-1959 number of projects	4	1					2	16		1
19	actes served ²	2,600	1,000					2,350	17,040		550
20	Prior to 1950number of projects	7	1	7	4	8	12	3	28	2	3
21	acres served ²	25,588	1,967	29,770	9,125	21,330	165,183	11,382	350,480	11,282	13,302
	DRAINAGE OPERATIONS, 1950-1959 8										
22	Cost of drainage works and servicesprojects reporting	8	1	6	1		12	5	35		1
23	dollars	52,711	12,125	128,600	9,000		505,378	33,400	1,474,494		4,500
24	New drainage works constructed, enlarged, or installedprojects reporting	4	1	1			1	3	15		1
25	dollars	16,055	12,125	15,635			2,179	30,300	60,624		2,000
26	Open ditchesprojects reporting	4	1				1	3	15		1
27	length, miles	5.9	3.6				0.5	5.5	50.0		2.0
28	Tile or covered drainsprojects reporting	1	1								
29	length, miles	0.1	0.1			* * *					
30	Levees or dikes		1	1							
31	length, miles		3.6	2.2							
32	Pumpe										
33	number of pumps										
84	Other (see text)projects reporting		1	1							
35	Cost of maintenance, operation, repair, and administration	4		6	1		12	3	22		1
36	dollars	36,656		112,965	9,000		503,199	3,100	1,413,870		2,500
- 1											

¹Iand served by two or more projects counted only once.

²Acres served by two projects are included for each project. See text.

³Includes projects taken over by another project prior to 1960. See text.

MONTANA 235

State Table 1.-DRAINAGE PROJECTS-NUMBER, AREA, COST, AND WORKS, 1920 TO 1960

[See text for comparability of data]

Item	1960 Census	1950 Census	1940 Census	1930 Census	1920 Census
AREA					
Approximate land areaacres	93,271,040	93,361,920	93,642,240	93,523,840	93,523,840
Land in farmsacres	64,081,391	59,247,434	46,451,594	44,659,152	35,070,656
Orainage projectsnumber	20	404	34	NA.	N.
Total area in drainage projectsacres served	62,222	289,189	372,661	167,629	168,68
Area not used for agriculture or not drained	2,110	NA.	NA.	NA.	N.
Not area drained and used for agriculture	60,112	NA.	1362,711	1150,844	N ₄
Drainage established 10 years or more before Census date	49,656	NA NA	NA.	NA.	N.
Drainage established within 10 years of Census dateacres served	10,456	NA NA	NA.	NA.	N.
Area served by two or more projecta		3,336	1,528		
PROJECTS BY TYPE OF ORGANIZATION					
rains owned by one landowner	1	22	NA NA	NA.	N/
acres served	640	² 3,260	27,000	28,100	² 13,650
Cooperative or mutual drainsnumber of projects	6	23			
scres served	4,685	²2,260			
Legally organized public drains	13	222	NA.	NA.	N/
acres served	54,787	² 94,172	² 53,418	²39,984	² 129,43
PROJECTS BY YEAR STARTED					
Started 10 years or more before Census date	11	² 21	NA.	NA NA	N/
acres served	51,265	284,354	355,489	34,408	³ 21,533
Started within 10 years of Census datenumber of projects	9	26	NA.	NA.	N/
acres served	8,847	² 15,338	17,172	133,221	3134,499
OPERATIONS, 10-YEAR PERIOD PRECEDING CENSUS DATE					
Cost of drainage works and services	18	225	NA.	NA.	N/
dollars	721,491	462,260	NA.	NA.	N/
New drainage works constructed, enlarged, or installed	11	49	NA.	NA.	N/
cost, dollars	211,129	4167,830	NA.	NA.	N.
Open ditches	10	8	NA	NA.	N/
length, miles	43.0	40	NA.	NA.	N/
Tile or covered drains	1	2	NA.	NA .	N/
length, miles	2.2	2	NA.	NA NA	N/
Levees or dikes projects reporting		.,.	NA.	NA NA	N/
length, miles			NA.	NA.	N/
Pumps projects reporting		NA.	NA.	NA.	N/
number of pumps		NA.	NA.	NA.	N/
Other (see text) projects reporting	1	NA.	NA.	NA.	N.
Cost of maintenance, operation, repair, and administration	10	NA	NA.	NA.	N.
dollars	510,362	294,430	NA	NA NA	N/
STATUS ON CENSUS DATE					
Capital investmentdollars	NA.	NA.	2,827,839	1,879,296	664,990
Physical works: Open ditcheslength, miles	NA.	NA.	420.9	284.2	102.1
Tile drains	NA.	NA.	73.8	76.7	50.7
Levees and dikeslength, miles	NA.	NA.	0.8		
Pumping unitsnumber of anits	NA.	(2)			

NA not available.

Not fully comparable. See text.

1905 figures exclude 377 projects and 189,497 acres in "irrigation enterprises"; 1940 figures exclude 312,243 acres in "irrigation enterprises"; 1920 figures exclude 25,600 acres in "irrigation enterprises"; 1920 figures exclude 25,600 acres in "irrigation enterprises"; 1920 figures exclude 25,600 acres for "irrigation enterprises."

1920 figures exclude 19,545 acres for mitch date of organization was not reported.

40ost of new works for lands not previously drained.

State Table 2.-DRAINAGE

			ed and used lture, 1960	Are	a by period drain	age was establish	ed	
Size of project (Based on area of agricultural land in project)	Number of projects		Served by two	Befo	re 1950	Area added 1950-1959		
		Total (acres)	or more projects (acres)	Projects reporting	Acres	Projects reporting	Acres	
1 All projects	20	60,112		11	49,656	10	10,456	
2 500 to 999 acres	11	9,051		4	3,854	7	5,197	
3 1,000 to 1,999 acres	4	4,921		3	3,921	1	1,000	
4 2,000 to 4,999 acres	3	10,670		2	8,020	1	2,650	
5 5,000 to 9,999 acres								
8 10,000 to 19,999 acres	1	12,580		1	10,971	1	1,609	
7 20,000 to 49,999 acres	1	22,890		1	22,890			
8 50,000 to 99,999 acres								
9 100,000 or more acres								

State Table 3.-DRAINAGE PROJECTS, 1960,

		Area draine for agricul		Ares	by period drains	ge was establishe	ed.
Type of organization	Number of projects	Total	Jerved by two	Before	1950	Area added	1950-1959
	,0	(acres)	or more projects (acres)	Frojects reporting	Acres	Projects reporting	Acres
All projects.	20	60,112		11	49,656	10	10,456
Drains owned by one landowner.	1	640				1	640
Cooperative or mutual draine	6	4,685		2	1,760	4	2,925
Legally organized public drains	13	54,787		9	47,896	5	6,891

State Table 4.-DRAINAGE PROJECTS, 1960,

			Area by period drainage was established					
Number of	ror agricui	ture, 1960 Served by two						
projects	Total (acres)	or more projects (acres)	Frojects reporting	Acres	Projects reporting	Acres		
20	60,112		11	49,656	10	10,4		
9	8,847				9	8,8		
11	51,265		11	49,656	1	1,6		
	projects 20	Total (scres) 20 60,112 9 8,847	Total or more projects	Total or more Frojects Total or more	Total (acres)	Total or more projects Frojects reporting Acres Projects reporting		

PROJECTS, 1960, BY SIZE

	rainage works		1750-1757			New WOTES C	onstructed, e	nlarged, or in	istalled, 195	0-1959		
Tot	tal	For new	works	Open d	itches	Tile or cove	red drains	Levees ar	nd dikes	Fung	08	Other.
rojects eporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (moiles)	Projects reporting	Length (miles)	Projects reporting	Number	projects reporting
18	721,491	11	211,129	10	43.0	1	2.2					:
10	212,412	7	131,326	6	17.3	1	2.2					
3	35,885	1	25,000	1	3.9							
3	64,107	1	32,303	1	11.9							
1	34,087	1	12,500	1	4.9							
1	375,000	1	10,000	1	5.0							

BY TYPE OF ORGANIZATION

Cost of d	rainage works	and services,	1950-1959			New works	constructed, e	mlarged, or i	installed, 195	0-1959		
To	tal	For new	works	Open d	itches	Tile or cover	red drains	Levees a	ind dikes	Fump	s	Other,
rojects eporting	Dollars	Frojects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number	projects reporting
18	721,491	11	211,129	10	43.0	1	2.2					1
1	6,000	1	6,000	1	1.9							
4	67,373	3	42,873	3	9.4							1
13	648,118	7	162,256	6	31.7	1	2.2					

BY YEAR OF ORGANIZATION

Cost of d	lrainage works	and services,	1950-1959			New works	constructed, en	nlarged, or i	nstalled, 195	0-1959		
To				Open d	1 tches	Tile or cov	ered drains	Levees a	nd dikes	Pur	mps	Other,
Projects reporting	Dollars		Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Frojects reporting	Length (miles)	Frojects reporting	Number	projects reporting
18	721,491	11	211,129	10	43.0	1	2,2					1
9	161,587	8	137,087	8	33.1							1
9	559,904	3	74,042	2	9.9	1	2.2					

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

_								
	Item and Census year	The State	Broadwater	Custer	Flathead	Gallatin	Missouls	Powell
	AREA							
1	Approximate land area	93,271,040	766,720	12,409,600	3,289,600	1,610,880	1,672,320	1,495,680
2	Land in farmsacres 1959	64,081,391	463,977	12,414,699	507,227	990,321	373,333	804,356
3	Drainage projectsnumber 1960	20	1	1	1	1	1	1
4	1950	404	5	5	8	11	6	29
5	Total area in drainage projects2	62,222	1,060	1,440	600	700	900	640
6	1950	289,189	1,546	5,765	3,599	10,235	322	1,335
7	Area not used for agriculture or not drained acres served 1960	2,110		760				
6	Net area drained and used for agriculture acres served 1960	60,112	1,060	680	600	700	900	640
9	Drainage established before 1950 acres served 1960	49,656	1,060			700		
10	Area added, 1950-1959 acres served 1960	10,456		680	600		900	640
11	Area served by two or more projects acres served 1960			•••				
	PROJECTS, 1980, BY TYPE OF ORGANIZATION							
12	Drains owned by one landowner number of projects	1						1
13	acres served ³	640						640
14	Cooperative or mutual drainsnumber of projects	6	1	1	1	1	1	
15	acres served ³	4,685	1,060	680	600	700	900	
16	Legally organized public drainsnumber of projects	13						
17	acres served	54,787			***			
	PROJECTS, 1960, BY YEAR STARTED							
18	1950-1959 number of projects	9		1	1		1	1
19	acres served ³	8,847		680	600		900	640
20	Prior to 1950number of projects	11	1.			1		
21	acres served'	51,265	1,060			700		
	DRAINAGE OPERATIONS, 1950-1959							
22	Cost of drainage works and servicesprojects reporting	18		1	1		1	1
23	dollars	721,491		35,000	24,500		4,044	6,000
24	New drainage works constructed, enlarged, or installed	11		1			1	1
25	dollars	211,129		35,000			4,044	6,000
26	Open ditches	10		35,000			1	1
27	length, miles	43.0					2.1	1.9
28	Tile or covered drains	*2.0		6.1			2.1	1.9
29	length, miles	2.2						
30	Levees or dikesprojects reporting	2.2						
31	length, miles							
32	Pumps			***				
33	number of pumps							
34	Other (see text)	1						
35	Cost of maintenance, operation, repair, and			***				•••
	administration,	10			1		•••	***
36	dollars	510,362	•••		24,500			

The excess of farm acreage over approximate land area is due to the fact that the entire acreage of a farm is tabulated as in the county in which the headquarters is located, even though a part of the farm may be situated in an adjoining county.

Thand served by two or more projects counted only occurred to the farm may be situated for each project. See text.

There is excess of farm acreage over approximate land area is due to the fact that the entire acreage of a farm is tabulated as in the county in which the headquarters is located, even though a part of the farm may be situated for a counted only one.

The county is a farm of the farm may be situated in an adjoining county.

The county is a farm is tabulated as in the county in which the headquarters is located, even though a part of the farm may be situated in an adjoining county.

County Table 1. - DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

	Item and Census year	Ravalli	Richland	Roosevelt	Sweet Grass	Treasure	Valley	Yellowstone	All other counties1
	AREA								
1	Approximate land areancres 1960	1,525,760	1,321,600	1,526,400	1,181,440	629,760	3,175,040	21,686,400	47,386,880
2	Land in farms	378,523	1,220,742	1,297,937	873,413	567,962	2,293,143	21,778,452	31,631,018
3	Drainage projectsnumber 1960	1	1	1	1	3	2	6	
4	1950	67	3	6	3	4	10	39	216
5	Total area in drainage projects 3	4,880	700	3,145	745	4,582	33,075	9,755	
6	1950	15,430	5,429	2,078	145	2,871	28,230	73,383	138,821
7	Area not used for agriculture or not drained acres served 1960					• • • •	750	600	
8	Net area drained and used for agriculture acres served 1960	4,880	700	3,145	745	4,582	32,325	9,155	
9	Dramage established before 1950 acres served 1960	4,880	•••	2,743			31,118	9,155	
10	Area added, 1950-1959 acres served 1960		700	402	745	4,582	1,207		
11	Area served by two or more projects acres served 1960	***				•••			
	PROJECTS, 1960, BY TYPE OF ORGANIZATION								
12	Drains owned by one landowner number of projects								
13	acres served '								
14	Cooperative or mutual drainsnumber of projects				1				
15	acres served				745				
16	Legally organized public drainsnumber of projects	1	1	1		3	2	6	
17	acres served 4	4,880	700	3,145		4,582	32,325	9,155	
	PROJECTS, 1960, BY YEAR STARTED								
18	1950-1959 number of projects		1		1	3			
19	acres served		700		745	4,582			
20	Prior to 1950number of projects	1		1			2	6	
21	acres served ⁴ .,	4,880		3,145		•••	32,325	9,155	
	DRAINAGE OPERATIONS, 1950-1959 ⁵								
22	Cost of drainage works and services projects reporting	1	1	1	1	3	2	6	
23	dollars	13,549	19,911	8,522	3,829	68,303	400,565	137,268	
24	New drainage works constructed, enlarged, or installed		1	1	1	3	2	1	
25	dollars		19,911	3,125	3,829	68,303	19,375	51,542	
26	Open ditchesprojects reporting		1	1	1	3	2		
27	length, miles		2.2	1.2	1.2	19.6	8.7		
28	Tile or covered drainsprojects reporting							1	
29	length, miles							2.2	
30	Levees or dikesprojects reporting								
31	length, miles								
32	Pumpeprojects reporting					•••			
33	number of pumps								
34	Other (see text)projects reporting				1				
35	Cost of maintenance, operation, repair, and administration	1		1			2	6	
36	dollars	13,549		5,397			381,190	85,726	
	1	1			1				

Includes Beaverhead, Big Horn, Blaine, Carbon, Cascade, Dawson, Carfield, Golden Valley, Granite, Hill, Jefferson, Lake, Lewis and Clark, Lincoln, Madison, Meagher, Masselahell, Park, Petroleum, Philips, Rosebud, Sanders, Silver Bow, Silliwster, Teton, and Wheetland counties.

The excess of farm acreage over approximate land area is due to the fact that the entire acreage of a farm is tabulated as in the county in which the beadquarters is located, even though a part of the farm may be situated in an adjoining county.

Land served by two or more projects counted any once counted any once and the served by two projects are included for each project. See text.

*Includes Projects taken over by another project prior to 1960. See text.

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State Table 1. – DRAINAGE PROJECTS–NUMBER, AREA, COST, AND WORKS, 1920 TO 1960

[See text for comparability of data]

[See	se text for comparability of d	at n			-
[tem	1960 Census	1950 Census	1940 Census	1930 Census	1920 Census
AREA					0011040
Approximate land area	49,031,680	49,064,320	49,057,920	49,157,120	49,157,12
Land in farms	47,755,708	47,466,828	47,343,981	44,708,565	42,225,47
Drainage projects	103	473	125	NA NA	N.
Total area in drainage projects	744,207	821,088	916,181	879,459	607,73
Area not used for agriculture or not drained	4,987	NA.	NA.	NA NA	N.
Net area drained and used for agricultureacres served	739,220	NA NA	1849,948	1864,159	N.
Drainage established 10 years or more before Census date	697,914	NA.	NA.	NA.	No.
Dramage established within 10 years of Census date	41,306	NA.	NA.	NA NA	N.
Area served by two or more projectsacres served	1,784	157,413	89,360	14,440	100,72
		,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	2.,	100,720
PROJECTS BY TYPE OF ORGANIZATION		(²)			
Drains owned by one landownernumber of projects			NA	NA NA	N/
acros served		(2)	(2)	23,080	27,270
Cooperative or mutual drains	4	25			
acres served	6,940	² 3,970			
Legally organized public drains	99	2149	NA.	NA.	N/
acres served,	734,064	² 713,821	²721,986	² 696,994	² 591,772
PROJECTS BY YEAR STARTED					
Started 10 years or more before Census date	99	²129	NA.	NA.	N/
actes served	707,704	²657,729	884,937	753,071	423,023
Started within 10 years of Census datenumber of projects	4	² 25	NA.	NA NA	NA NA
acres served	33,300	² 60,062	31,244	126,388	184,707
OPERATIONS, 10-YEAR PERIOO PRECEDING CENSUS DATE					
Cost of drainage works and services	40	275	NA.	NA.	N/
dollars	1,388,581	1,533,019	NA NA	NA NA	NA NA
New drainage works constructed, enlarged, or installed	1,300,301	1,555,019	NA NA	NA NA	NA NA
cost, dollars	417,911	³ 757,990	NA NA	NA NA	NA NA
Open ditches. projects reporting.	10	28	NA NA	NA NA	NA
leagth, miles	60.6	167			
Tile or covered drains. projects reporting.		167	NA NA	NA NA	NA NA
length, miles	***	1	NA NA	NA NA	NA NA
Levees or dikes		1	NA NA	NA NA	
length, miles		1	NA NA	NA NA	N/
Pumps		NA NA			N.A
number of pumps		NA NA	NA	NA NA	NA.
Other (see text)			NA.	NA NA	NA
	·	NA NA	NA	NA	NA.
Cost of maintenance, operation, repair, and administration	970,670	NA 775,029	NA NA	NA NA	NA NA
	,,0,070	775,029	NO.	NA NA	
STATUS ON CENSUS DATE					
Capital investment	NA NA	NA	7,578,999	6,847,070	4,588,578
Physical works: Open ditches	NA NA	NA	1,406.7	1,202.3	734.5
Tile drainslength, miles	NA NA	NA.	26.3	93.4	359.4
Levees and thiseslength, miles	NA	NA	230.3	116.8	26.8
Pumping unitsnumber of units	NA.	(²)	3	3	

MA Not available.

Not fully comparable. See text.

1905 figures exclude 319 projects and 103,297 acres in "irrigation enterprises"; 1940 figures exclude 194,195 acres in "irrigation enterprises"; 1930 figures exclude 179,385 acres in "irrigation enterprises"; 1930 figures exclude 6,688 acres in "irrigation enterprises".

10ct of new works for lands not previously drained.

State Table 2.-DRAINAGE

			ed and used lture, 1960	Are	a by period drain	age was establish	ed
Size of project (Based on area of agricultural land in project)	Number of projects		Served by two	Befo	re 1950	Area added	1950-1959
		Total (acres)	or more projects (acres)	Projects reporting	Acres	Projects reporting	Acres
All projects	103	741,004	3,568	102	699,698	. 9	41,306
500 to 999 acres	14	9,684		14	9,684		
1,000 to 1,999 acres	18	27,781	1,464	18	27,781		
2,000 to 4,999 acres	28	89,673	640	28	89,313	1	360
5,000 to 9,999 acres	26	187,135		25	159,565	6	27,570
10,000 to 19,999 acres	12	163,857	1,464	12	154,281	1	9,576
20,000 to 49,999 acres	3	95,508		3	95,508		
50,000 to 99,999 acres	2	167,366		2	163,566	1	3,800
100,000 or more acres	***						

State Table 3.-DRAINAGE PROJECTS, 1960,

		Area draine for agricul		Ares	by period drains	ge was establishe	à
Type of organization	Number of projects	Total	Served by two	Before	1950	Area added	1950-1959
		(acres)	projects (acres)	Projects reporting	Acres	Projects reporting	Acres
All projects	103	741,004	3,568	102	699,698	9	41,30
Drains owned by one landowner							
Cooperative or mutual drains	4	6,940		4	6,940		
Legally organized public drains	99	734,064	3,568	98	692,758	9	41,30

State Table 4.-DRAINAGE PROJECTS, 1960,

		Area draine for agricul		Are	a by period drain	age was establish	ed
Year of organization	Number of projects		Served by two	Befor	e 1950	Area added	1950-1959
	projects	Total (acres)	or more projects (acres)	Projects reporting	Acres	Projects reporting	Acres
1 All projects	103	741,004	3,568	102	699,698	9	41,306
2 1950-1959	4	33,300	1,064	3	3,604	4	29,696
8 Prior to 1950	99	707,704	2,504	99	696,094	5	11,610

PROJECTS, 1960, BY SIZE

To	tal	For new	works	Open d	itches	Tile or cov	ered drains	Levees a	nd dikes	Pum	рв	Other,
Projects reporting	Dollers	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Frojects reporting	Length (miles)	Projects reporting	Number	projects reporting
40	1,388,581	12	417,911	10	60.6							4
3	8,589											
4	33,436											
10	112,233	1	4,669	1	2.4							
12	286,163	6	124,320	5	29.1							
8	492,323	4	201,022	3	14.8							1
1	2,730											
2	453,107	1	87,900	1	14.3							

BY TYPE OF ORGANIZATION

Cost of d	rsinage works	and services,	1950-1959			New works	constructed, e	enlarged, or	installed, 19	50-1959		
To	tal .	For new	works	Open d	itches	Tile or cove	red drains	Levees	and dikes	Pump	s	Other,
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number	projects reporting
40	1,388,581	12	417,911	10	60.6							4
											•••	
40	1,388,581	12	417,911	10	60.6							4

BY YEAR OF ORGANIZATION

Cost of d	rainage works	and services,	1950-1959			New works	onstructed, e	nlarged, or i	nstalled, 195	0-1959		
To	otal	For ne	w works	Open d	itches	Tile or cove	red drains	Levees a	nd dikes	Pu	mps .	Other,
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Frojects reporting	Number	projects reporting
40	1,388,581	12	417,911	10	60.6			,				4
4	209,415	4	186,120	3	29.0							2
36	1,179,166	8	231,791	7	31.6							2

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1980 and 1950 data]

				y or 1980 and 1930 d					_
	Item and Consus year	The State	Antelope	Buffalo	Burt	Butler	Cass	Cedar	Cherry
	AREA								
1	Approximate land area	49,031,680	545,920	609,280	309,760	372,480	354,560	475,520	3,828,480
2	Land in farmsacres 1959	47,755,708	533,929	602,435	300,066	363,397	327,920	462,005	3,689,084
3	Drainage projectsnumber 1960	103	1	3	5	4	1	3	5
4	1950	473	3	43	6	9	1	3	4
5	Total area in drainage projects 1	744,207	1,760	2,460	75,120	21,674	4,720	6,572	49,320
8	1950	821,088	1,793	5,558	72,520	19,734	1,580	6,572	28,229
7	Area not used for agriculture or not drained , , acres served $1960 \ldots$	4,987							
3	Net area drained and used for agriculture acres served 1980	739,220	1,760	2,460	75,120	21,674	4,720	6,572	49,320
9	Drainage established before 1950 acres served 1960	697,914	1,760	2,460	75,120	19,394	4,720	6,572	49,320
10	Area added, 1950-1959 acres served 1960	41,306				2,280			
11	Area served by two or more projects acres served 1960	1,784				320			•••
	PROJECTS, 1980, BY TYPE OF ORGANIZATION								
12	Drains owned by one landowner number of projects								
13	acres served ² .,								
14	Cooperative or mutual drainsnumber of projects	4		3					1
15	acres served ²	6,940		2,460					4,480
16	Legally organized public drains number of projects	99	1		5	4	1	3	4
17	acres served 2	734,064	1,760		75,120	21,994	4,720	6,572	44,840
	PROJECTS, 1980, BY YEAR STARTED								
18	1950-1959 number of projects	4							
19	acres served ²	33,300							
20	Prior to 1950 number of projects	99 1	1	3	5	4	1	3	5
21	acres served ²	707,704	1,760	2,460	75,120	21,994	4,720	6,572	49,320
	DRAINAGE OPERATIONS, 1950-1959 8								
22	Cost of drainage works and services projects reporting	40			1	3			
23	dollars	1,388,581			294,496	26,516			
24	New drainage works constructed, enlarged, or installed	12				1			
25	dollars	417,911				2,973			
26	Open ditchesprojects reporting	10				1			
27	length, miles	60.6				3.0			
28	Tile or covered drainsprojects reporting								
29	length, miles								
30	Levees or dikesprojects reporting								
81	length, miles								
32	Pumpsprojects reporting								
33	number of pumps								
34	Other (see text)	4				1			
35	Cost of maintenance, operation, repair, and administration	36			1	3			
38	dollars	970,670			294,496	23,543			
	05/11/07/1	,	1		,***	,,			

land served by two or more projects counted only once.

Acres served by two projects wre included for each project. See text.

Includes projects taken over by another project prior to 1960. See text.

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County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

	Item and Consus year	Colfax	Cuming	Dakota	Dawson	D1.xon	Dodge	Doug1es	Fillmore
	AREA								
1	Approximate land area	259,200	365,440	163,200	4626,560	307,200	338,560	213,120	369,280
2	Land in farmsacres 1959	250,469	360,331	154,945	14,76,505	284,347	326,619	154,657	356,024
3	Drainage projectsnumber 1960	2	6	2	1	4	2	3	
4	1950	11	6	2	45	4	36	6	
5	Total area in drainage projects*	41,317	34,646	12,290	6,216	14,760	97,870	40,720	9,580
6	1950	38,423	18,906	12,290	26,574	14,760	88,922	59,281	9,67
7	Area not used for agriculture or not drained acres served 1960	•••						3,267	
8	Net area drained and used for agriculture acres served 1960	41,317	34,646	12,290	6,216	14,760	97,870	37,453	9,580
9	Drainage established before 1950 acres served 1960	41,317	19,826	12,290	6,216	14,760	94,070	37,453	9,580
10	Area added, 1950-1959 acres served 1960		14,820				3,800		
11	Area served by two or more projects acres served 1960			400					
	PROJECTS, 1980, BY TYPE OF ORGANIZATION								
12	Drains owned by one landowner number of projects								
13	acres served ³ .	•••							
14	Cooperative or mutual drains								
15	acres served ⁸ .								
16	Legally organized public drainsnumber of projects	2	6	2	1	4	2	3	
17	acres served ³	41,317	34,646	12,690	6,216	14,760	97,870	37,453	9,580
	PROJECTS, 1960, BY YEAR STARTED								
18	1950-1959 number of projects		3						
19	acres served ^A		17,200						
20	Prior to 1950number of projects	2	3	2	1	4	2	3	:
21	acres served ⁵ .	41,317	17,446	12,690	6,216	14,760	97,870	37,453	9,580
	DRAINAGE OPERATIONS, 1950-1959								
22	Cost of drainage works and services projects reporting	2	4	2	1		1	•••	
23	doltars	4,311	105,198	188,530	11,117		88,632		
24	New drainage works constructed, enlarged, or installed		3	***			1		
25	dollars		58,716				87,900		
26	Open ditchesprojects reporting		3				1		
27	length, miles		18.8				14.3		
28	Tile or covered drainsprojects reporting								
29	length, miles								
30	Levees or dikesprojects reporting								
31	length, miles								
32	Pumpsprojects reporting								
33	number of pumps	***							
34	Other (see text)		1						
35	Cost of maintenance, operation, repair, and administration	2	3	2	1		1		
36	dollars	4,311	46,482	188,530	11,117		732		
		,	,	, 30	,		132		• • • • • • • • • • • • • • • • • • • •

The excess of farm acreage over approximate lane area is due to the fact that the entire acreage of a farm is tabulated as in the county in which the headquarters is located, even though part of the farm may be situated in an adjoining county.

Land served by two or more projects counted only under the counted only under the counted only under the counted only under the counted only under the counted only under the counted only under the counted only under the counted only under the counted only under the counted only under the counted only under the counted only under the counted on the counted only under the counted on the counted of the counted on the cou

County Table 1. - DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

	Item and Census year	Franklin	Frontier	Hemilton	Johnson	V		W	
	todii ani Consus you	FISHELLI	rroutter	HEMILTON	Johnson	Kearney	Lincoln	Merrick	Nemaha
	AREA								
1	Approximate land areaacres 1960	369,920	618,240	346,240	241,280	¹ 327,680	1,614,720	298,880	255,360
2	Land in farms	350,288	600,753	341,412	224,475	1329,813	1,571,031	288,375	252,095
3	Drainage projectsnumber 1980	1	1	1	1	1	4	2	2
4	1950	2	1	8	1	9	23	14	2
5	Total area in drainage projects ² acres served 1980	1,285	720	520	2,880	15,000	13,162	14,496	3,640
6	1950	1,375	720	247	2,880	15,294	43,738	14,887	5,84
7	Area not used for agriculture or not drained acres served 1980								•••
6	Net area drained and used for agriculture acros served 1960	1,285	720	520	2,880	15,000	13,162	14,496	3,640
9	Drainage established before 1950 acres served 1960	1,285	720	520	2,880	15,000	12,272	14,496	3,640
10	Area added, 1950-1959 acres served 1960				•••		890		••
11	Area served by two or more projects acres served 1980						•••		••
	PROJECTS, 1980, BY TYPE OF ORGANIZATION								
12	Drains owned by one landowner number of projects								
13	acres served ⁸								
14	Cooperative or mutual drains								•••
15	acres served ⁸								
16	Legally organized public drainsnumber of projects	1	1	1	1	1	4	2	
17	acres served ³	1,285	720	520	2,880	15,000	13,162	14,496	3,640
	PROJECTS, 1960, BY YEAR STARTED								
16	1950-1959								
19	acres served ⁵								
20	Prior to 1950number of projects	1	1	1	1	1	4	2	
21	acres served ⁵	1,285	720	520	2,880	15,000	13,162	14,496	3,640
					,	Í			-,
90	DRAINAGE OPERATIONS, 1950-1959 Cost of drainage works and services projects reporting			1	1	1	3	1	_
23	dollars	***	•••			-	-	-	2
24	New drainage works constructed, enlarged,	•••		172	16,293	8,000	17,400	1,250	52,505
	or installedprojects reporting					1	2		
25	dollars					7,500	13,800		
26	Open ditchesprojects reporting					1	2		
27	length, miles					1.8	3.0		
26	Tile or covered drainsprojects reporting								
29	length, miles								
30	Levees or dikesprojects reporting								
31	length, miles								
32	Pumpeprojects reporting								
83	number of pumps								
34	Other (see text)								
35	Cost of maintenance, operation, repair, and administration			1	1	1		1	2
36	eraflob			172	16,293	500	3,600	1,250	52,505

The excess of farm acreage over approximate land area is due to the fact that the entire acreage of a farm is tabulated as in the county in which the headquarters is located, even though part of the farm may be situated in an adjoining county.

Land served by two or more projects counted only counted only counted only counted only counted only counted only counted only counted only counted only counted only counted only counted only counted only counted only counted only counted on the project of the counted only counted on the project of the counted only counted on the project of the counted only counted on the counted only counted on the cou

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County Table 1. - DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959 [See text for comparability of 1960 and 1950 data]

Item and Census year	Otoe	Pawnee	Phelps	Platte	Polk	Richardson	Sarpy	Saundera
AREA								
Approximate land areaacres 1960	394,880	277,120	348,800	430,080	1277,120	350,720	151,040	483,840
Land in farmsacres 1959	382,368	248,994	341,170	404,301	1284,272	326,599	128,361	461,104
Drainage projectsnumbor 1960	2	1	1	2	3	8	7	1:
1950	3	1	4	4	11	3	8	1
Total area in drainage projects ²	15,260	7,180	7,840	18,727	2,480	58,044	24,270	47,25
1950	15,780	7,180	3,295	18,987	3,067	38,255	24,940	54,81
Area not used for agriculture or not drained acres served 1960							1,720	
Not area drained and used for agriculture acres served 1960	15,260	7,180	7,840	18,727	2,480	58,044	22,550	47,25
Drainage established before 1950 acres served 1960	15,260	7,180	3,200	18,727	2,480	58,044	22,550	47,25
Area edded, 1950-1959 acres served 1960			4,640					
Area served by two or more projects acres served 1960							•••	
PROJECTS, 1960, BY TYPE OF ORGANIZATION								
Drains owned by one landowner number of projects								
acres served								
Cooperative or mutual drainsnumber of projects								
acres served								
Legally organized public drains number of projects	2	1	1	2	3	8	7	1
acres served	15,260	7,180	7,840	18,727	2,480	58,044	22,550	47,25
PROJECTS, 1960, BY YEAR STARTED								
1950-1959								
acres served 3								
Prior to 1950 number of projects	2	1	1	2	3	8	7	1
acres served ³	15,260	7,180	7,840	18,727	2,480	58,044	22,550	47,25
DRAINAGE OPERATIONS, 1950-1959								
Cost of drainage works and services projects reporting	2		1	2		2	3	
dollars	133,545		44,015	6,259		21,131	71,528	61,25
New drainage works constructed, enlarged,								
or installedprojects reporting	1	•••	1	•••		•••	•••	
dollars	65,603		44,015		•••			10,00
Open ditchesprojects reporting	1	•••	1	• • • • • • • • • • • • • • • • • • • •				
length, miles	1.0	•••	8.5					
Tile or covered drainsprojects reporting	•••	•••						
length, miles	•••							
Levees or dikes	•••	•••						
length, miles			•••					
Pumpsprojects reporting								"
number of pumps						•••		
Other (see text)		•••	•••			•••		
Cost of maintenance, operation, repair, and administration	2			2		2	3	
dollars	67,942			6,259		21,131	71,528	51,25

The excess of farm acreage over approximate land area is due to the fact that the entire acreage of a farm is tabulated as in the county in which the headquarters is located, even though part of the farm may be situated in an adjoining county.

**Land served by two or more projects counted only counted on the counted only counted only counted only counted only counted only counted only counted only counted only counted only counted only counted only counted only counted only counted only counted only counted only counted only counted only counte

Item and Census year

AREA 1 Approximate land area......acres 1960...

DRAINAGE OF AGRICULTURAL LANDS

County Table 1. - DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data] 411 Scotts Bluff Seward Stanton Thurston Washington York other counties1 ²464,640 366,080 275,840 369,280 248,320 247.680 283,520 369,280 12,503,040 ²534,706 264,815 362,162 217,281 357,835 11,993,014

- 1		404,040	500,000	210,040	307,200	240,520	241,000	200,020	200,200	. نامان و دان دوغط
	Land in farmsacres 1959	² 534,706	357,246	264,815	362,162	217,281	239,042	275,176	357,835	11,993,014
	Drainage projectsnumber 1960	1	1	6	2	4	6	1	2	
1	1950	14	3	4	3	4	5	1	8	171
	Total area in drainage projects 5	11,233	2,300	18,920	4,520	15,740	35,120	1,560	3,030	
l	1950	90,539	2,390	6,184	4,580	15,740	23,940	1,560	3,145	16,885
	Area not used for agriculture or not drained acres served 1960									
	Net area drained and used for agriculture acres served 1960	11,233	2,300	18,920	4,520	15,740	35,120	1,560	3,030	
	Drainage established before 1950 acres served 1960	11,233	2,300	10,544	4,520	15,740	28,620	1,560	3,030	
	Area added, 1950-1959 acres served 1960			8,376			6,500			
	Area served by two or more projects acres served 1960			1,064	•••					
	PROJECTS, 1960, BY TYPE OF ORGANIZATION									
ŀ	Drains owned by one landowner number of projects									
	acres served 4									
	Cooperative or mutual drainsnumber of projects									
	acres served4									
	Legally organized public drains number of projects	1	1	6	2	4	6	1	2	
	acres served 4	11,233	2,300	19,984	4,520	15,740	35,120	1,560	3,030	
	PROJECTS, 1960, BY YEAR STARTED								,	
	1950-1959 number of projects			1			1			
	acres served4			9,600			6,500			
	Prior to 1950	1	1	5	2	4	5	1	2	
	acres served 4 .	11,233	2,300	13,384	4,520	15,740	28,620	1,560	3,030	
	DRAINAGE OPERATIONS, 1950-1959 $^{\circ}$									
l	Cost of drainage works and services projects reporting	1	1	2			3		1	
	dollars	7,638	117	115,266			111,205		2,200	
	New drainage works constructed, enlarged, or installedprojects reporting			1			1			
	dollars			107,306			20,098			
l	Open ditchesprojects reporting			1						
l	length, miles			10.2						
	Tile or covered drainsprojects reporting									
	length, miles									
	Levees or dikesprojects reporting									
l	length, miles									
	Pumpsprojects reporting									
	number of pumps									
	Other (see text)projects reporting						1			
	Cost of maintenance, operation, repair, and administration	1	1	1			3		1	
ı		7,638	117	7,960		***	91,107		2,200	

[&]quot;The excess of larm acreage over approximate land area is one to the fact even though part of the farm many be situated in an adjoining county."

land served by two or more projects counted only once.

"Acres served by two projects are included for each project. See text.

"Includes projects taken over by another project prior to 1960. See text.

State Table 1.-DRAINAGE PROJECTS-NUMBER, AREA, COST, AND WORKS, 1920 TO 1960

[See text for comparability of data]

	text for comparability of da	it n			
ltem	1960 Census	1950 Census	1940 Census	1930 Census	1920 Census
AREA					
Approximate land areaacros	70,264,320	70,264,960	70,273,280	70,285,440	70,285,44
and in farmsacres	10,942,936	7,063,525	3,785,106	4,080,906	2,357,16
Ornunage projectsnumber	2	82	8	NA.	N N
Total area in drainage projectsacres served	41,521	251,154	153,373	162,980	15,94
Area not used for agriculture or not drained		NA.	NA.	NA.	N
Net area drained and used for agriculture	41,521	NA	1148,617	1155,491	l n
Drunage established 10 years or more before Census date	41,521	NA.	NA.	NA.	l N
Drainage established within 10 years of Census dateacres served		NA.	NA.	NA.	l n
Area served by two or more projectsacres served					
PROJECTS BY TYPE OF ORGANIZATION					
Trains owned by one landowner		(2)	NA.	NA.	l N
acres served		(2)	22,600	(2)	, n
Cooperative or mutual drains		21			
acres served		² 2,500			
egally organized public drains	2	24	NA.	NA.	,
acres served,	41,521	²125,595	² 24,398	²80,756	N N
			,	,	
PROJECTS BY YEAR STARTED					
started 10 years or more before Census date	2	25	NA.	NA.	N.
acros served	41,521	² 128,095	141,695	115,024	N N
started within 10 years of Census date		(²)	NA NA	NA NA	N
acres served	• • •	(2)	11,678	47,956	N.
OPERATIONS, 10-YEAR PERIOD PRECEDING CENSUS DATE					
Cost of drainage works and services	33	² 5	NA.	NA.	N
dotlars	219,902	193,919	NA.	NA.	N
New drainage works constructed, enlarged, or installed	1	42	NA NA	NA.	N
cost, dollars	84,215	462,292	NA.	NA NA	N
Open ditches projects reporting	1	2	NA.	NA NA	N
length, miles	36.5	21	NA.	NA NA	N
Tile or covered drains		• • •	NA.	NA.	N
length, miles		***	NA.	NA.	N
Levees or dikesprojects reporting			NA.	NA.	N
length, miles		•••	NA.	NA.	N.
Pumps	1	NA	NA.	NA.	N.
number of pumps	4	NA.	NA.	NA.	N.
Other (see text)		NA.	NA.	NA.	N
Cost of maintenance, operation, repair, and administration projects reporting	3	NA	NA.	NA.	К
emflob	135,687	131,627	NA.	NA.	NJ
STATUS ON CENSUS DATE					
Capital investment	NA.	NA .	1,337,647	1,349,774	117,85
Physical works: Open ditches. length, miles	NA.	NA.	426.4	334.8	16.
Tile drainslength, miles	NA	NA.		4.0	4.
Levees and dikeslength, miles	NA	NA.	23.0	33.0	
Pumping unitsnumber of units	NA.	(2)	3	2	

NA Not available.

NA Not available.

NA Not available. See text.

21950 figures exclude 77 projects and 123,059 acres in "irrigation enterprises"; 1940 figures exclude 126,375 acres in "irrigation enterprises"; 1930 figures exclude 82,224 acres in "irrigation enterprises";

Includes projects taken over by another project prior to 1950. See text.

**Cost of new morks for lands not previously drained.

State Table 2.-DRAINAGE

			ed and used lture, 1960	Area	by period drains	age was establiab	ed
Size of project (Based on area of agricultural land in project)	Number of projects		Served by two	Befor	e 1950	Ares added	1950-1959
		Total (scres)	or more projects (acrea)	Projects reporting	Acres	Projects reporting	Acres
All projects	2	41,521		2	41,521		
500 to 999 acres.							
1,000 to 1,999 acres							
2,000 to 4,999 acres	1	2,500		1	2,500		
5,000 to 9,999 acres							
10,000 to 19,999 acres							
20,000 to 49,999 acres	1	39,021		1	39,021		
50,000 to 99,999 acres		•••					
100,000 or more acres							

¹Includes projects taken over by another project prior to 1960. See text.

State Table 3.-DRAINAGE PROJECTS, 1960,

			Area draine for agricul		Are	s by period drains	age was establish	ed
1	Type of organization	Number of projects	Total	Served by two	Befor	e 1950	Ares added	1950-1959
			(acres)	projects (acres)	Projects reporting	Acres	Projects reporting	Acres
1	All projects.	2	41,521		2	41,521		
2	Drains owned by one landowner	• • •	***					
3	Cooperative or mutual drains		•••		•••			
4	Legally organized public drains	2	41,521		2	41,521	•••	

¹Includes projects taken over by another project prior to 1960. See text.

State Table 4.-DRAINAGE PROJECTS, 1960,

		Ares drained for agricul		Are	s by period drains	ge was establish	ed.
Year of organization	Number of projects		Served by two	Before	1950	Ares sdded	1950-1959
	projecta	Total (acres)	or more projects (acres)	Projects reporting	Acres	Projects reporting	Acres
All projects.	2	41,521		2	41,521		
1950-1959							
Prior to 1950	2	41,521		2	41,521		

 $^{^{1}}$ Includes projects taken over by another project prior to 1960. See text.

PROJECTS, 1960, BY SIZE

	0-1959	natalled, 195	nlarged, or i	onstructed, e	new works			1750-1757	and services,	DINGE WOLLD	
umpa aqmu	Pu	nd dikes	Levees a	red drains	Tile or cove	itches	Open d	works	For new	al	Tot
Numb	Frojects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting
1	1					36.5	1	84,215	1	219,902	13
			***							3,914	1
										• • • •	
1	1					36.5	1	84,215	1	215,988	12
.											
.				[

BY TYPE OF ORGANIZATION

Cost of d	rainage works	and services,	1950-1959			New works	constructed, e	enlarged, or	installed, 19	50-1959		
To	tal	For new	works	Open d	itches	Tile or cove	red drains	Levees	nd dikes	Pump	s	Other,
Projects reporting	Dollars	Frojects reporting	Dollars	Projects reporting	Length (miles)	Frojects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number	projects reporting
13	219,902	1	84,215	1	36.5					1	4	
13	219,902	1	84,215	1	36.5					1	4	

BY YEAR OF ORGANIZATION

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959									Г
Total For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other,			
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Frojects reporting	Length (miles)	Projects reporting	Number	projects reporting	
13	219,902	1	84,215	1	36.5					1	4		1
													5
13	219,902	1	84,215	1	36.5					1	4		3

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

Item and Census year	The State	Pershing	Washoe	All other counties1
AREA				
1 Approximate land areaacres 1960	70,264,320	3,835,520	4,019,840	51,651,200
2 Land in farmsacres 1959	10,942,936	882,936	1,237,291	7,860,797
3 Drainage projectsnumber 1960	2	1	1	
4 1950	82	12	12	62
5 Total area in drainage projects ²	41,521	39,021	2,500	
6 1950	251,154	64,164	8,252	178,738
7 Area not used for agriculture or not drained acres served 1980				
8 Net area drained and used for agriculture acres served 1960	41,521	39,021	2,500	
Dramage established before 1950 acres served 1960	41,521	39,021	2,500	
10 Area added, 1950-1959 acres served 1960				
Area served by two or more projects acres served 1960				
PROJECTS, 1960, BY TYPE OF ORGANIZATION				
12 Drains owned by one landowner number of projects				
12 acres served ³ .				
14 Cooperative or mutual drainsnumber of projects		***		
15 acres served ³ .		***		
16 Legally organized public drainsnumber of projects	2	1	1	
17 acres served ³	41,521	39,021	2,500	
PROJECTS, 1960, BY YEAR STARTED				
18 1950-1959 number of projects				
19 acres served 3				
20 Prior to 1950number of projects	2	1	1	•••
acres served 3	41,521	39,021	2,500	•••
DRAINAGE OPERATIONS, 1950-1958 ⁴			_,	
22 Cost of drainage works and services	3	2	1	
dollars	219,902	215,988	3,914	
New drainage works constructed, enlarged,	227,702	233,300	2,744	
or installedprojects reporting	1	1	***	
dollars	84,215	84,215		
Open ditchesprojects reporting	1	1		
length, miles	36.5	36.5		•••
Tile or covered drainsprojects reporting				
length, miles				
Levees or dikesprojects reporting				
length, mites				
32 Pumpeprojects reporting	1	1		
number of pumps	4	4		
Other (see text)projects reporting			***	
St Cost of maintenance, operation, repair, and administration	3	2	. 1	
dollars	135,687	131,773	3,914	•••
uonas	20,007	131,773	3,914	

Includes Churchill, Clark, Douglas, Elko, Remeralds, Humboldt, Lander, Lincoln, Lyon, Nye, Orasby, and Storey counties.

Land served by two or more projects counted only once.

Aeres served by two projects are included for each project. See text.

"Includes projects taken over by another project prior to 1960. See text.

State Table 1. – DRAINAGE PROJECTS – NUMBER, AREA, COST, AND WORKS, 1920 TO 1960

[See text for comparability of data]

[See text for comparability of data]									
lten .	1960 Census	1950 Cinaus	1940 Census	1930 Cencuc	1920 Census				
AREA				-					
Approximate land areaacros	4,813,440	4,814,080	4,814,080	4,808,960	4,808,96				
Land in farmsacres	1,379,002	1,725,441	1,874,402	1,758,027	2,282,58				
Drainage projectsnumber	a	5			·				
Total area in drainage projectsacres served	11,756	11,306							
Area not used for agriculture or not drainedacres served	800	NA							
Not area drained and used for agricultureacres served	10,956	NA							
Drainage established 10 years or more before Census dateacres served	6,106	NA.							
Drainage established within 10 years of Census dateacres served	4,850	NA.							
Area served by two or more projectsacres served									
PROJECTS BY TYPE OF ORGANIZATION									
Drains owned by one landownernumber of projects	• • •		•••						
scres served	***		•••		••				
Cooperative or mutual drains	9	4		• · ·					
scres served	10,956	6,906	•••						
Legally organized public drains	***	1	•••	•••	••				
actes served	***	4,300		•••					
PROJECTS BY YEAR STARTED									
Started 10 years or more before Census datenumber of projects	4	1							
acres served	6,306	4,300							
Started within 10 years of Census datenumber of projects	5	4		• • • • • • • • • • • • • • • • • • • •					
acres served	4,650	6,906							
OPERATIONS, 10-YEAR PERIOD PRECEDING CENSUS DATE									
	_								
Cost of drainage works and services	8	5		•••					
dollars	40,617	39,357	• • • • • • • • • • • • • • • • • • • •	•••					
New drainage works constructed, enlarged, or installed	7	15	•••		••				
cost, dollars Open ditches	39,967	134,407		•••	••				
	7 13.6	5 12	***						
length, miles Tile or covered drains projects reporting				•••	••				
length, miles	5.0	2	•••	•••					
Levees or dikes			•••	•••	••				
length, miles		***	•••	• • • • • • • • • • • • • • • • • • • •	••				
Pumpe projects reporting.	• • •	NA			••				
number of pumps					••				
Other (see text) projects reporting.		NA		•••	••				
Cost of maintenance, operation, repair, and administration		NA MA	• • •	•••					
dollars	650	NA	•••		••				
oonws	650	4,950	•••		••				
STATUS ON CENSUS DATE									
Capital investment	NA	NA NA							
Physical works: Open ditches. longth, miles.	A.T.A.	,]							
Tile drains length, miles	NA NA	NA NA							
Levees and dikes. length, miles	NA NA	NA NA							
	NA NA	NA NA							
Pumping unitsnumber of units	NA I		***		• •				

NA Not available.

1 Cost of new works for lands not previously drained.

State Table 2.-DRAINAGE

	Number of projecta		ed and used lture, 1960	Area by period drainage was established				
Size of project (Based on area of agricultural land in project)		Total (acres)	Served by two	Befo	re 1950	Area added 1950-1959		
			or more projects (acres)	Frojects reporting	Acres	Projects reporting	Acres	
All projects	9	10,956		4	6,106	7	4,850	
500 to 999 scres	5	3,400		1	750	4	2,650	
1,000 to 1,999 acres	2	2,600		2	2,400	2	200	
2,000 to 4,999 acres	2	4,956		1	2,956	1	2,000	
5,000 to 9,999 acres								
10,000 to 19,999 acres								
20,000 to 49,999 acres								
50,000 to 99,999 acres								
100,000 or more acres								

State Table 3.-DRAINAGE PROJECTS, 1960,

		Area draine for agricul		Area by period drainage was established				
Type of organization	Number of projects	Total	Served by two	Before	1950	Area added 1950-1959		
	P1 000000	(acres)	or more projects (acres)	Projects reporting	Acres	Frojects reporting	Acres	
All projects.	9	10,956		4	6,106	7 1	4,85	
Drains owned by one landowner								
Cooperative or mutual drains	9	10,956		4	6,106	7	4,85	
Legally organized public drains								

State Table 4.-DRAINAGE PROJECTS, 1960,

		Area draine for agricul		Area by period drainage was established			
Year of organization	Number of projects		Served by two	Befor	e 1950	Area added 1950-1959	
	projects	Total (acres)	projects (acres)	Projects reporting	Acres	Projects reporting	Acres
All projects.	9	10,956		4	6,106	7	4,8
1950-1959	5	4,650				5	4,6
Prior to 1950	4	6,306		4	6,106	2	2

PROJECTS, 1960, BY SIZE

cost of a	rainage works	and services,	1950-1959			New works	constructed, e	nlarged, or i	nstalled, 195	0-1959		
To	tal	For new	works	Open ditches		es Tile or covered drains Levees and dikes f		Tile or covered drains Levees and dikes Fumps		рв	Other,	
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number	projects reporting
8	40,617	7	39,967	7	13.6	3	5.0					
4	19,118	4	19,118	4	5.6	1	1.0					
2	7,500	2	7,500	2	3.5	1	1.0					
2	13,999	1	13,349	1	4.5	1	3.0					

BY TYPE OF ORGANIZATION

Cost of d	rainage works	and services,	1950-1959			New works constructed, enlarged, or installed, 1950-1959							T
To	tal	For new	works	Open d	itches	Tile or covered drains		Levees and dikes		Pumps		Other,	
Projects reporting	Dollars	Projects reporting	Dollars	Frojects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number	projects reporting	
8	40,617	7	39,967	7	13.6	3	5.0						
8	40,617	7	39,967	7	13.6	3	5.0						

BY YEAR OF ORGANIZATION

irsinage works	and services,	1950-1959		New works constructed, enlarged, or installed, 1950-1959								
tal	For ne	w works	Open d	i tches	Tile or covered drains		Levees and dikes		Ритря		Other,	
Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number	projects reporting	
40,617	7	39,967	7	13.6	3	5.0						
32,467	5	32,467	5	10.1	2	4.0						
8,150	2	7,500	2	3.5	1	1.0						
	Dollars 40,617 32,467	Projects Projects	Dollars Projects reporting Dollars	tal For new works Open d Dollars Projects reporting Dollars Projects reporting 40,617 7 39,967 7 32,467 5 32,467 5	Table For new works Open ditches	tal For new works Open ditches Tile or cov Dollars Projects reporting Dollars Frojects reporting Length (miles) Frojects reporting 40,617 7 39,967 7 13.6 3 32,467 5 10.1 2	Table For new works Open ditches Tile or covered drains	tal For new works Open ditches Tile or covered drains Leves a Dollars Projects reporting Dollars Frojects (atles) Frojects reporting Length (atles) Frojects (niles) Projects reporting 40,617 7 39,967 7 13.6 3 5.0 32,467 5 10.1 2 4.0	For new works	For new works	Table For new works Open ditches Tile or covered drains Levees and dikes Pumps	Table For new works Open ditches Tile or covered drains Leves and dikes Pumps Other,

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

Item and Census year	The State	Bergen	Burlington	Middlesex	Monmouth	Ocean
AREA						
Approximate land areaacres 1960	4,813,440	149,120	524,160	199,680	305,280	408,96
Land in farms	1,379,002	7,456	184,727	42,764	105,548	28,3
Drainage projectsnumber 1960	9	***	1	6	3	
1950	5	1	1	1	2	
Total area in drainage projects 1	11,756		2,956	5,050	3,000	7
1950	11,206	4,300	2,956	400	2,800	7
Ares not used for agriculture or not drained acres served 1960	800				300	
Net area drained and used for agriculture acres served 1960	10,956		2,956	5,050	2,200	7
Drainage established before 1950 acres served 1960	6,106		2,956	400	2,000	7
Area added, 1950-1959 acres served 1960	4,850		***	4,650	200	
Area served by two or more projects acres served 1960]					
PROJECTS, 1960, BY TYPE OF ORGANIZATION						
Drains owned by one landowner number of projects						
acres sersed2						
Cooperative or mutual drains number of projects	9		1	6	3	
acres served ²	10,956		2,956	5,050	2,200	7
Legally organized public drains number of projects						
acres served ²						
PROJECTS, 1960, BY YEAR STARTED						
1950-1959number of projects	5	1	(5	1	
acres served2	4,650	(4,600	50	
Prior to 1950number of projects	4		1	1	2	
acres served ²	6,306		2,956	÷50	2,150	7
DRAINAGE OPERATIONS, 1950-1959 ³						
Cost of dramage works and services projects reporting	8		1	6	3	
dollare	40,617		650	34,117	5,850	
New drainage works constructed, enlarged, or installed	7			6	3	
dollars	39,967			34,117	5,850	
Open ditchesprojects reporting	~			6	3	
length, miles	13.0			11.0	2.6	
Tile or covered drainsprojects reporting	3			2	1	
length, mules	5.0	0		4.0	1.0	
Levees or dikes						
length, miles						·
Pumpsprojects reporting						
number of pumps						
Other (see text)						•
Cost of maintenance, operation, repair, and						
administrationprojects reporting	1		1			
dollars	650		650			

land served by two or more projects counted only once. Acres served by two projects are included for each project. See text. Findlades projects taken over by another project prior to 1960. See text.

State Table 1.-DRAINAGE PROJECTS-NUMBER, AREA, COST, AND WORKS, 1920 TO 1960

[See text for comparability of data]

[See text for comparability of data.]												
Item	1960 Cencus	1950 Census	1940 Census	1930 Census	1920 Census							
AREA												
Approximate land areaacros	77,766,400	77,767,040	77,767,040	78,401,920	78,401,92							
Land in farmsacres	46,293,207	47,521,809	38,860,427	30,822,034	24,409,63							
Drainage projectsnumber	4	223	7	NA	N							
Total area in drainage projects	31,:	244,041	305,885	176,292	140,21							
Area not used for agriculture or not drained		NA	NA I	NA.	N							
Net area drained and used for agricultureacres served	31,593	NA	1286,890	1151,516	N							
Drainage established 10 years or more before Census date	30,293	NA NA	NA.	NA NA	N							
Drainage established within 10 years of Census date	1,300	NA.	NA.	NA .	N							
Area served by two or more projects												
PROJECTS BY TYPE OF ORGANIZATION		İ										
Trains owned by one landowner	1	(2)	NA.	NA .	N							
acres served	600	(2)	(²)	(2)	N.							
Cooperative or mutual drains		(2)		`								
scres served		(2)										
Legally organized public drains	4	25	NA NA	NA .	N							
acres served	30,993	252,113	²172,7%	² 59,837	N							
PROJECTS BY YEAR STARTED												
Started 10 years or more before Census date	4	25	NA.	NA	N							
acres served	30,993	252,113	298,685	171,552	N							
Started within 10 years of Census date	1	(2)	NA NA	NA NA	N N							
acres served	600	(2)	7,200	4,740	N.							
OPERATIONS, 10-YEAR PERIOD PRECEDING CENSUS DATE												
Cost of drainage works and services	5	25	NA NA	NA NA	N							
dollars	127,433	74,636	NA NA	NA NA	N.							
New drainage works constructed, enlarged, or installed	2	i	i	1	N.							
cost, dollars	70,840	***	na na	NA NA	N.							
	70,840	•••	NA NA	NA	N.							
		•••		NA								
length, nales	6.3		NA	NA	N.							
Tile or covered drains. projects reporting.	***	•••	NA	NA	N.							
length, moles	•••		NA	NA	N.							
Levees or dikes			NA	NA	N.							
length, mules			NA	NA I	N.							
Pumps projects reporting		NA NA	NA	NA.	N							
number of pumps	• • • • • • • • • • • • • • • • • • • •	NA NA	NA	NA	N.							
Other (see text)		NA NA	NA NA	NA NA	N.							
Cost of maintenance, operation, repair, and administration	3	NA	NA NA	NA NA	NJ NJ							
oottars	56,593	74,636	NA	NA .	N							
STATUS ON CENSUS DATE												
Capital investment	NA	NA.	5,722,121	3,279,371	1,710,79							
Physical works: Open discheslength, miles	NA	NA	625.2	282.9	124.							
Tile drains length, miles	NA	NA.	308.9	305.4	282.2							
Levees and dikes	NA	NA .	181.3	12.0								
Pumping unitsnumber of units	NA NA	(2)			**							

NA Not available.

NO to tully comparable. See text.

21950 figures exclude 218 projects and 192,848 acres in "irrigation enterprises"; 1940 figures exclude 133,089 acres in "irrigation enterprises"; 1930 figures exclude 116,455 acres in "irrigation enterprises."

State Table 2.-DRAINAGE

			ed and used 1ture, 1960	Are	a by period drain	age was establish	ed
Size of project (Based on area of agricultural land in project)	Number of projects		Served by two	Befor	re 1950	Area added 1950-1959	
, , , , , , , , , , , , , , , , , , , ,		Total (acres)	or more projects (scres)	Projects reporting	Acres	Projects reporting	Acres
All projects	5	31,593		4	30,293	2	1,30
500 to 999 acres	1	600				1	60
1,000 to 1,999 acres	1	1,000		1	300	1	70
2,000 to 4,999 acres							
5,000 to 9,999 acres	2	15,018		2	15,018		
10,000 to 19,999 acres	1	14,975		1	14,975		
20,000 to 49,999 acres							
50,000 to 99,999 acres							
100,000 or more acres							

State Table 3.-DRAINAGE PROJECTS, 1960,

		Area draine for agricul		Area by period drainage was established					
Type of organization	Number of projects	Total	Served by two	Before	1950	Area added 1950-1959			
	F0	(acres)	or more projects (acres)	Projects reporting	Acres	Projects reporting	Acres		
All projects	5	31,593		4	30,293	2	1,300		
Drains owned by one landowner	1	600				1	600		
Cooperative or mutual drains		30,993			30,293		700		

State Table 4.-DRAINAGE PROJECTS, 1960,

		Area draine for agricul		Area by period drainage was established					
Year of organization	Number of projects		Served by two	Before	≥ 1950	Area added 1950-1959			
	projecta	Total (acres)	or more projects (acres)	Projects reporting	Projects Acres Pro- reporting Acres rep		Acres		
All projects	5	31,593		4	30,293	2	1,30		
1950-1959	1	600				1	60		
Prior to 1950	4	30,993		4	30,293	1	70		

PROJECTS, 1960, BY SIZE

		0-1959	nstalled, 195	nlarged, or i	constructed, e	New works			1950-1959	and services,	rsinage works	Cost of d
Other,	r pa	Open ditches Tile or covered drains Levees and dikes Fumps		Open ditches		works	For new	tal	To			
projects reporting	Number	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting
 							6.3	2	70,840	2	127,433	5
 							3.8	1	50,840	1	50,840	1
							2.5	1	20,000	1	20,000	1
											42,593	2
											14,000	1
 					···							

BY TYPE OF ORGANIZATION

Cost of d	rsinage works	and services,	1950-1959			New works	constructed, e	enlarged, or i	nstalled, 195	0-1959		
To	Total For new works			Open d	itches	Tile or covered drains Levees			and dikes Pum		8	Other,
Projects reporting	Dollars	Projects reporting	Dollars	Frojects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number	projects reporting
5	127,433	2	70,840	2	6.3							
1	50,840	1	50,840	1	3.8							
4	76,593	1	20,000	1	2.5							

BY YEAR OF ORGANIZATION

t of	drain age works	and services,	1950-1959			New works o	onstructed, e	nlarged, or i	nstalled, 195	0-1959		
T	otal	For ne	w works	Open di	Itches	hes Tile or covered drains Levees			Levees and dikes		Pumps	
ects rting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Frojects reporting	Length (miles)	Frojects reporting	Length (miles)	Projects reporting	Number	projects reporting
5	127,433	2	70,840	2	6.3						•••	
1	50,840	1	50,840	1	3.8							
4	76,593	1	20,000	1	2.5							

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

Item and Census year	The State	Chaves	Eddy	Valencia	All other counties1
AREA					
Approximate land area	77,766,400	3,900,160	2,664,320	3,620,480	44,256,64
Land in farmsacres 1959	46,293,207	2,824,518	1,156,260	2,589,724	23,308,13
Drainage projectsnumber 1960	5	3	1	1	
1950	223	147	16	3	
Total area in drainage projects ² scres served 1960	31,593	29,993	600	1,000	
1950	244,961	74,912	21,952	23,428	124,6
Area not used for agriculture or not drained acres served 1960					
Net area drained and used for agriculture acres served 1960	31,593	29,993	600	1,000	
Drainage established before 1950 acres served 1960	30,293	29,993		300	
Area added, 1950-1959 acres served 1960	1,300		600	700	
Area served by two or more projects acres served 1980					
PROJECTS, 1980, BY TYPE OF ORGANIZATION					
Drains owned by one landowner	1		1	•••	
acres served ³	600		600	•••	
Cooperative or mutual drainsnumber of projects		***		***	
acres served ³	***	• • •			
Legally organized public drainsnumber of projects	4	3		1	-
acres served ³	30,993	29,993		1,000	
PROJECTS, 1960, BY YEAR STARTED					
1950-1959 number of projects	1		1		
acres served ³	600		600		
Prior to 1950number of projects	4	3		1	
acres served ³	30,993	29,993		1,000	
DRAINAGE OPERATIONS, 1950-1959 ⁴					
Cost of drainage works and servicesprojects reporting	5	3	1	1	
dollars	127,433	56,593	(5)	(5)	
New drainage works constructed, enlarged,	127,433	30,393	(-)	(-)	
or installed	2		(5)	(5)	
dollars	70,840		(5)	(5)	
Open ditches	2		(5)	(5)	
length, miles	63		(5)	(5)	
Tile or covered drainsprojects reporting	***	***			
length, miles					
Levees or dikes					
length, miles					
Pumps					
number of pumps					
Other (see taxt)					
Cost of maintenance, operation, repair, and	- 1				
administrationprojects reporting	3	3	***		
dollars	56,593	56,593			

Includes Bernalillo, Colfax, Curry, De Baca, Dona Ana, Lincoln, Luna, McKinley, Mora, Otero, Rio Arriba, Sandoval, San Juan, San Miguel, Santa Fe, Sierra, Socorro, and Tace counties.

Ziand served by two or more projects counted only once.

Jacres served by two projects are included for each project. See text.

*Includes projects taken over by another project prior to 1960. See text.

*Included in State total only.

State Table 1. – DRAINAGE PROJECTS—NUMBER, AREA, COST, AND WORKS, 1920 TO 1960

[See text for comparability of data]

	text for comparability of di				
1 tem	1960 Census	1950 Census	1940 Cenaus	1930 Census	1920 Census
	vonodo	0011040	ocinous.	Velibus	Census
AREA					
Approximate land area	30,680,960	30,684,160	30,674,560	30,498,560	30,498,56
and in farms	13,489,516	16,016,721	17,170,337	17,979,633	20,632,80
rainage projectsnumber	19	14	• • • •	• • •	
otal area in drainage projectsacres served	49,616	56,465	•••		
Area not used for agriculture or not drained	•••	NA NA			
Net area drained and used for agricultureacres served	49,616	NA			
Drainage established 10 years or more before Census date	45,165	NA			•
Drainage established within 10 years of Consus dateacres served	4,451	NA.		•••	
Area served by two or more projects	•••	***			
PROJECTS BY TYPE OF ORGANIZATION					
rains owned by one landownernumber of projects	2	5			
acres served	1,300	2,638			
opperative or mutual drainsnumber of projects	13	5			
acres served	20,071	25,582			
egally organized public drainsnumber of projects	4	4			
acres served	28,245	28,245			
	,	,-			
PROJECTS BY YEAR STARTED					
arted 10 years or more before Census datenumber of projects	13	6			
acres served	45,165	29,502		•••	
arted within 10 years of Census datenumber of projects	6	8	•••		
acres served	4,451	26,963			
OPERATIONS, 10-YEAR PERIOD PRECEDING CENSUS DATE					
	13	12			
est of drainage works and services	202,013	177,224			
dollars	202,013	177,224	***	***	
w drainage works constructed, enlarged, or installed					
cost, dollars	86,009	¹ 75,119			
Open ditches		7			
length, miles	25.5	31		***	
Tile or covered drains	2	•••	***	•••	
length, mules	19.8		•••		
Levees or dikes	1	1			
length, mules	5.5	2	•••		
Pumps projects reporting	1	NA NA		• • •	
number of pumps	2	NA.			
Other (see text)	1	NA NA			
ost of maintenance, operation, repair, and administration	٩	NA NA	• • •		
dollars	116,004	102,105			
STATUS ON CENSUS DATE				ĺ	
pital investment	NA NA	NA.			
nysical works:					
Open ditches	NA	NA			
Tile drains length, miles	NA	NA .			
Levees and dikeslength, miles	NA .	NA NA			
Pumping unitsnumber of units	NA.				

NA Not available. 1Cost of new works for lands not previously drained.

State Table 2.-DRAINAGE

			ed and used lture, 1960	Area by period drainage was established				
Size of project (Based on area of agricultural land in project)			Served by two	Befor	e 1950	Area added 1950-1959		
(based on after or official array and by observe	F0	Total (acres)	or more projecta (acres)	Projects reporting	Acres	Projects reporting	Acres	
All projects.	19	49,616		13	45,165	6	4,4	
500 to 999 acres	14	8,871		9	5,771	5	3,1	
1,000 to 1,999 acres	2	2,351		1	1,000	1	1,3	
2,000 to 4,999 acres								
5,000 to 9,999 acres	1	8,500		1	8,500			
10,000 to 19,999 scres	2	29,894		2	29,894			
20,000 to 49,999 scres						•••		
50,000 to 99,999 acres								
100,000 or more scres					•••	•••		

State Table 3.-DRAINAGE PROJECTS, 1960,

		Area drained for agricul		Ares	by period drains	ge was established	_
Type of organization	Number of projects		Served by two	Before 1950		Area added 1950-1959	
	projects	Total (acres)	or more projects (acres)	Projects reporting	Acres	Projects reporting	Acres
All projects.	19	49,616		13	45,165	6	4,45
Drains owned by one landowner	2	1,300				2	1,30
Cooperative or mutual drains	13	20,071		9	16,920	4	3,15
Legally organized public drains	4	28,245		4	28,245		

State Table 4.-DRAINAGE PROJECTS, 1960,

			Area by period drainage was established				
Number of		Served by two	Before 1950		Area added 1950-1959		
projects	Total (acres)	projects (acres)	Projects reporting	Acres	Projects reporting	Acres	
19	49,616		13	45,165	6	4,451	
6	4,451				6	4,451	
13	45,165		13	45,165			
	projects	Number of For agricultance For agricultance Total (acres) 19 49,616 6 4,451	projects Total or more projects 19 49,616 6 4,451	Number of projects for agriculture, 19e0 Are	Number of projects Total (acres) Served by two (acres) Projects (acres) Project	Number of projects Served by two or nore (acres) Projects (acres	

PROJECTS, 1960, BY SIZE

Cost of dr	ainage works &	and services,	1950-1959			New works o	constructed, e	nlarged, or i	nstalled, 195	0+1959		
Tot	al	For new	works	Open di	Open ditches Tile or cove		red drains	Levees a	nd dikes	Fum	Pumps	
Projects reporting	Dollars	Projects reporting	Dollara	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number	projects reporting
13	202,013	7	86,009	7	25.5	2	19.8	1	5.5	1	2	
8	97,411	5	73,686	5	16.0	2	19.8					
2	39,745	2	12,323	2	9.5			1	5.5	1	2	
1	14,400											
2	50,457											

BY TYPE OF ORGANIZATION

Cost of d	rsinage works	and services,	1950-1959			New works	constructed, e	enlarged, or	nlarged, or installed, 1950-1959					
To	tal	For new	works	Open d	itches	Tile or covered drains		Levees and dikes		Pumps		Other,		
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number	projects reporting		
13	202,013	7	86,009	7	25.5	2	19.8	1	5.5	1	2	1		
2	24,765	2	24,765	2	3.8	1	0.8					1		
9	126,848	5	61,244	5	21.7	1	19.0	1	5.5	1	2			
2	50,400				,									

BY YEAR OF ORGANIZATION

Cost of d	rsinage works	and services,	1950-1959			New works	constructed, e	nlarged, or installed, 1950-1959					
To	otal	For ne	works	Open d:	Open ditches Tile or covered		ered drains	Levees a	nd dikes	Pu	Pumps]
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number	projects reporting	
13	202,013	7	86,009	7	25.5	2	19.8	1	5.5	1	2	1	
6	64,231	5	43,009	5	12.5	1	0.8	1	5.5	1	2	1	Ì
7	137,782	2	43,000	2	13.0	1	19.0						
!													L

County Table 1. - DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

			[See text for e	comparability of	1960 and 1950	GRUA_						
	Item and Census year	The State	Franklin	Genesee	Madison	Monroe	Oneida	Orange	Orleans	Seneca	Steuben	Wayne
	AREA											
1	Approximate land areaacres 1960	30,680,960	1,078,400	320,640	423,040	430,720	785,280	530,560	253,440	211,200	901,120	388,480
2	Land in farmsacres 1959	13,489,516	244,054	239,333	302,334	215,900	408,853	235,153	175,732	132,005	567,380	275,357
3	Drainage projectsnumber 1960	19	1	2	1	3	2	1	2	3	2	5
4	1950	14		1	1	1	3	1	2	1	2	4
5	Total area in drainage projects 1	49,616	600	5,137	8,500	1,375	1,670	18,200	8,132	2,395	1,257	2,350
6	1950	56,465		4,437	8,500	175	2,970	18,200	8,132	10,944	1,257	1,850
7	Area not used for agriculture or not drained , acres served $1960\ldots$											
8	Net area drained and used for agriculture acres served $1960\ldots$	49,616	600	5,137	8,500	1,375	1,670	18,200	8,132	2,395	1,257	2,350
9	Drainage established before $1950,\ldots,\ldots$ acres served $1960\ldots$	45,165		4,437	8,500	175	1,670	18,200	8,132	944	1,257	1,850
10	Area added, 1950-1959 acres served 1960	4,451	600	700		1,200				1,451		500
11	Area served by two or more projects acres served 1960											
	PROJECTS, 1960, BY TYPE OF ORGANIZATION											
12	Drains owned by one landowner number of projects	2	1	1								
13	acres served2	1,300	600	700								
14	Cooperative or mutual drainsnumber of projects	13		1		3	1		1	3	2	5
15	acres served ²	20,071		4,437		1,375	1,000		7,257	2,395	1,257	2,350
16	Legally organized public drainsnumber of projects	4			1		1	1	1			
17	acres served ²	28,245			8,500		670	18,200	875			
	PROJECTS, 1960, BY YEAR STARTED											
16	1950-1959 number of projects	6	1	1		2				2		1
19	acres served ²	4,451	600	700		1,200				1,451		500
20	Prior to 1950number of projects	13		1	1	1	2	1	2	1	2	4
21	acres served ²	45,165		4,437	8,500	175	1,670	18,200	8,132	944	1,257	1,850
	DRAINAGE OPERATIONS, 1950-1959 ³											
22	Cost of drainage works and servicesprojects reporting	13	(4)	(4)	1	2	(4)	1	(4)	2	(4)	2
23	dollars	202,013	(4)	(4)	14,400	7,921	(4)	36,000	(4)	21,280	(4)	10,765
24	New drainage works constructed, enlarged,											
25	or installed	86,009	(4) (4)	(4) (4)		2	(4) (4)			1	(4)	(4)
26	Open ditches. projects reporting		(4)	(4)		7,921	(*) (4)			6,503	(4) (4)	(⁴)
20	open dichesprojects reporting	25.5	(4)	(4)		3.2	(4)			1	(4)	
21	Tile or covered drainsprojects reporting	25.5		(*)						3.2	(4)	(4)
20	length, miles	19.8		(4)							(4)	
30	Levees or dikes	19.0									(-)	(4)
31	length, miles	5.5								3.2		(4)
32	Pumpeprojects reporting	1										(4)
33	number of pumps	2										(4)
34	Other (see text)	1		1								
35	Cost of maintenance, operation, repair, and											
	administrationprojects reporting	9		1	1		1	1	1	2	2	2
36	doliars	116,004		5,122	14,400		10,000	36,000	9,335	14,777	19,425	6,945

Land served by two or more projects counted only once.
Acres served by two projects are included for each project. See text.
Includes projects taken over by another project prior to 1960. See text.
The Luded in State total only.

State Table 1. – DRAINAGE PROJECTS-NUMBER, AREA, COST, AND WORKS, 1920 TO 1960

580	e text for comparability of d	ata j			
Item	1960 Census	1950 Census	1940 Census	1930 Census	1920 Census
AREA					001000
Approximate land areaacres	31,402,880	31,422,080	31,450,880	31,193,600	31,193,60
Land in farms	15,887,724	19,317,937	18,845,338	18,055,103	20,021,73
Drainage projects	564	413	246	NA.	N N
Total area in drainage projects	1,418,892	1,128,509	825,576	679,236	542,82
Area not used for agriculture or not drainedacres served	98,389	NA	NA.	NA.	N
Not area drained and used for agriculture	1,320,503	NA.	¹ 673,034	1331,121	l n
Drainage established 10 years or more before Census date	1,066,021	HA	NA.	NA.	N
Drainage established within 10 years of Census date	254,482	NA	NA.	NA.	N N
Area served by two or more projectsacres served	95,071	63,304	74,272	9,200	9,60
PROJECTS BY TYPE OF ORGANIZATION				,	
Drains owned by one landowner	39	4	NA.	NA.	N.
acres served	65,426	16,342	58,700	17,370	59,85
Cooperative or mutual drains	403	287	***	•••	
acres served	485,339	332,356			
Legally organized public drainsnumber of projects	122	122	NA.	NA.	N.
acres served,	866,267	779,811	766,876	661,866	482,97
PROJECTS BY YEAR STARTED					
Started 10 years or more before Census datenumber of projects	378	223	NA.	N.A.	N.
acres served	1,094,600	846,830	704,211	507,157	55,710
Started within 10 years of Census datenumber of projects	186	190	NA.	NA.	N/
acres served	322,432	281,679	121,365	172,079	487,118
OPERATIONS, 10-YEAR PERIOD PRECEDING CENSUS DATE					
Cost of drainage works and services	310	250	NA.	NA.	N/
dottars	2,959,290	1,438,698	N.A.	NA	N.A
New drainage works constructed, enlarged, or installed	219	² 158	NA.	NA NA	N.
cost, dollars	2,187,155	² 737,994	NA.	NA.	N.A
Open ditchesprojects reporting	217	158	NA	NA.	NA
length, mules	959.0	403	NA.	NA	NA NA
Tile or covered drains	4.1		NA.	NA	N.A
length, mules			NA	NA	N.
Levees or dikes	20.7	1	NA.	NA .	N.
length, rules		1	N.A.	NA.	N.A
Pumps projects reporting	3 7	NA NA	NA	NA	N.A
Other (see text)	5	NA NA	NA NA	NA	N.A
Cost of maintenance, operation, repair, and administration projects reporting	130	NA NA	NA NA	NA.	N.A
dollars	772,135	700,704	NA.	NA NA	NA NA
outrace	772,137	700,704	NA.	NA	N.A
STATUS ON CENSUS DATE					
Capital investmentdollars	NA.	NA.	5,467,906	4,719,079	3,623,518
Physical works: Open ditches length, miles	NA.	NA.	1,846.6	1,483.5	1,171.3
Tile drains length, miles	NA NA	NA NA	1,040.0	1,465.5	1,1/1.
Levees and dikes. length, nules	NA NA	NA NA	4.0	22.0	33.5
Pumping units. number of units.	NA NA	N.S.	4.0	4	NA NA
number of units	NA.	***		" [NA

NA Not available.

NA Not fully comparable. See text.

Cost of new works for lands not previously drained.

State Table 2.-DRAINAGE

			ed and used lture, 1960	Area by period drainage was established				
Size of project (Based on ares of agricultural land in project)	Number of projects			Befor	re 1950	Area added 1950-1959		
		(acres)	or more projects (scres)	Projects reporting	Acres	Projects reporting	Acres	
All projects	564	1,417,032	191,600	434	1,162,550	153	254,48	
500 to 999 acres.	304	202,778	40,607	229	151,664	79	51,11	
1,000 to 1,999 acres	134	179,749	21,724	102	136,660	37	43,08	
2,000 to 4,999 acres	72	188,866	34,224	59	153,469	20	35,39	
5,000 to 9,999 acres	28	190,996	22,316	21	127,430	11	63,56	
10,000 to 19,999 scres	12	161,601	12,345	9	100,285	6	61,31	
20,000 to 49,999 scres	11	303,597	39,486	11	303,597			
50,000 to 99,999 acres	3	189,445	20,898	3	189,445			
100,000 or more acres								

State Table 3.-DRAINAGE PROJECTS, 1960,

		Area drained for agricul		Ares	by period drains	uge was established	1
Type of organization	Number of projects	Total	Served by two	Before	1950	Area added 1950-1959	
		(acres)	or more projects (acres)	Projects reporting	Acres	Projects reporting	Acres
All projects.	564	1,417,032	191,600	434	1,162,550	153	254,48
Drains owned by one landowner	39	65,426	12,975	22	29,514	22	35,91
Cooperative or mutual drains,	403	485,339	78,714	305	348,840	112	136,49
Legally organized public drains	122	866,267	99,911	107	784,196	19	82,07

State Table 4.-DRAINAGE PROJECTS, 1960,

		Area draine for agricul		Are	a by period drain	age was establish	ed
Year of organization	Number of projects		Served by two	Befor	e 1950	Ares added 1950-1959	
	projects	Total (acrea)	or more projects (acres)	Projects reporting	Acres	Projects reporting	Acres
All projects	564	1,417,032	191,600	434	1,162,550	153	254,48
1950-1959	186	322,432	52,182	56	77,135	141	245,29
Prior to 1950	378	1,094,600	139,418	378	1,085,415	12	9,18

PROJECTS, 1960, BY SIZE

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959										
Tota	al	For new	works	Open d	itches	Tile or cov	ered drains	Levees a	nd dikes	Puz	трв	Other.		
ts ing	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number	projects reporting		
310	2,959,290	219	2,187,155	217	959.0	1	4.1	3	20.7	3 !	7	5		
166	569,577	120	470,203	119	277.9	1	4.1			1	2	2		
72	446,510	50	339,261	50	191.3			1	2.6	1	2	2		
41	404,972	29	279,687	29	131.9									
17	718,005	14	565,918	14	223.8									
7	519,086	5	484,086	4	131.1			2	18.1	1	3	1		
4	281,041	1	48,000	1	3.0									
3	20,099													

BY TYPE OF ORGANIZATION

Cost of d	rsinage works	and services,	1950-1959			New works	s constructed, enlarged, or installed, 1950-1959					
To	tal	For new	works	Open d	itches	Tile or cove	red drains	Levees a	and dikes	Pump	es	Other,
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number	projects reporting
310	2,959,290	219	2,187,155	217	959.0	1	4.1	3	20.7	3	7	5
33	429,975	31	401,511	31	378.2	1	4.1	1	7.0	1	2	
227	1,244,569	162	967,376	160	407.2			1	2.6	1	2	4
50	1,284,746	26	818,268	26	173.6			1	11.1	1	3	1

BY YEAR OF ORGANIZATION

Cost of d	drsinage works	and services,	1950-1959			New works	constructed, en	nlarged, or i	nstalled, 195	0-1959		
To	otal	For ne	works	Open di	tches	Tile or cove	ered drains	Levees a	nd dikes	Pur	mps .	Other.
Projects reporting	Dollsrs	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number	projects reporting
310	2,959,290	219	2,187,155	217	959.0	1	4.1	3	20.7	3	7	5
186	2,059,989	178	1,913,964	178	832.5	1	4.1	3	20.7	3	7	3
124	899,301	41	273,191	39	126.5							2

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959 [See text for comparability of 1980 and 1950 data]

	Item and Census year	The State	Alexander	Resufort	Bertie	Bladen	Brunswick	Burke	Cabarrus	Caldwell
	AREA									
1 A	pproximate land areaacres 1960	31,402,880	163,200	531,840	443,520	5 62,560	558,720	323,840	230,400	304,64
2 1	and in farmsacres 1959	15,887,724	101,237	245,766	227,569	246,423	115,384	87,462	144,822	94,33
E	Prainage projectsnumber 1960	564	4	66	8	6	6	2	5	
	1950	413	4	. 49		4	3	2	5	
1	'otal area in drainage projects '	1,418,892	3,200	107,389	5,350	14,053	5,320	575	4,192	1,25
3	1950	1,128,509	3,200	115,136		13,036	2,000	575	4,192	1,25
1	Area not used for agriculture or not drained acres served 1960	98,389		16,140		700	• • • •			
	Net area drauned and used for agriculture acres served 1960	1,320,503	3,200	91,249	5,350	13,353	5,320	575	4,192	1,25
9	Drainage established before 1950 acres served 1960	1,066,021	3,200	85,484		11,453	2,000	575	4,192	1,25
	Area added, 1950-1959 acres served 1960	254,482		5,765	5,350	1,900	3,320			
1	Area served by two or more projects acres served 1960	95,071		20,948						
	PROJECTS, 1960, BY TYPE OF ORGANIZATION									
2 0	rains owned by one landowner number of projects	39		1	4	1				
3	acres served 2	65,426		510	2,600	800				
ŧ	Cooperative or mutual drainsnumber of projects	403		59	4	2	6			
5	acres served ²	485,339		66,027	2,750	2,780	5,320			
B L	egally organized public drainsnumber of projects	122	4	6		3		2	5	
7	acres served ²	866,267	3,200	45,878		9,773		575	4,192	1,25
	PROJECTS, 1960, BY YEAR STARTED									
8 1	950-1959	186		13	8	2	3			
	acres served ²	322,432		11,973	5,350	1,900	3,320			
F	rior to 1950number of projects	378	4	53		4	3	2	5	
ı	acres served ²	1,094,500	3,200	100,442		11,453	2,000	575	4,192	1,25
	DRAINAGE OPERATIONS, 1950-1959 ³									
2 0	cost of drainage works and servicesprojects reporting	310		38	g.	4	3			
1	dollars	2,959,290		166,840	29,500	86,185	15,727			
4 N	lew drainage works constructed, enlarged, or installedprojects reporting	219		20	8	4	3			
5	dollars	2,187,155		80,628	29,500	42,185	14,227			
3	Open ditchesprojects reporting	217		20	8	4	3			
7	length, miles	959.0		34.9	13.2	31.0	6.7			
8	Tile or covered drainsprojects reporting	1								
9	length, miles	4.1								
0	Levees or dikesprojects reporting	3								
ı	length, miles	20.7								
2	Pumpsprojects reporting	3								
3	number of pumps	7								
	Other (see text)projects reporting	5								
5 0	Cost of maintenance, operation, repair, and administration	130		20		2	2			
6	dollar	772,135		86,212		44,000	1,500			

 $^{^{1}\}mathrm{Land}$ served by two or more projects counted only once. $^{2}\mathrm{Acres}$ served by two projects are included for each project. See text. $^{3}\mathrm{Includes}$ projects taken over by another project prior to 1960. See text.

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

_	[see orts or comparation; or two and 1900 data]											
	Item and Census year	Camden	Carteret	Catawba	Chowan	Cleveland	Columbus	Craven	Cumberland	Currituek		
	AREA											
1	Approximate land areaacres 1980	152,960	340,480	259,840	115,200	298,240	600,960	464,000	423,040	174,720		
2	Land in farmsacres 1959	51,712	47,008	144,630	67,945	206,087	304,035	142,559	196,617	66,542		
3	Drainage projectsnumber 1960	21	9	4	9	1	14	17	13	13		
4	1950	18	4	4	2	1	6	15	8	10		
6	Total area in drainage projects 1	42,730	28,310	3,792	19,431	14,502	52,977	35,517	45,420	26,875		
6	1950	41,710	4,650	3,792	5,650	14,502	40,157	21,613	36,105	15,709		
7	Area not used for agriculture or not drained acres served 1960	14,980	6,000		1,000			9,856		9,704		
8	Not area drained and used for agriculture acres served 1960	27,750	22,310	3,792	18,431	14,502	52,977	25,661	45,420	17,171		
9	Drainage established before 1950 acres served 1960	26,730	6,150	3,792	5,650	14,502	40,157	25,661	37,005	17,171		
10	Area added, 1950-1959 acres served 1960	1,020	16,160		12,781		12,820		8,415			
11	Area served by two or more projects acres served 1960	7,395	1,950					700	1,300	900		
	PROJECTS, 1960, BY TYPE OF ORGANIZATION											
12	Drains owned by one landowner number of projects	1	2				2			2		
13	acres served ²	500	5,510				3,100			1,285		
14	Cooperative or mutual drains	18	7		2		10	12	10	9		
15	acres served ²	31,545	18,750		1,840		13,453	10,815	16,205	9,422		
16	Legally organized public drainsnumber of projects	2		4	7	1	2	5	3	2		
17	scres served ²	3,100		3,792	16,591	14,502	36,424	15,546	30,515	7,364		
	PROJECTS, 1960, BY YEAR STARTED											
18	1950-1959 number of projects	3	3		7		8		4	2		
19	acres served ²	2,070	17,510		12,781		12,820		9,150	1,285		
20	Prior to 1950number of projects	18	6	4	2	1	6	17	9	11		
21	acres served ²	33,075	6,750	3,792	5,650	14,502	40,157	26,361	37,570	16,786		
	DRAINAGE OPERATIONS, 1950-1959											
	Cost of drainage works and services projects reporting	7	8	•••	8		8	10	11	8		
23	dollars	37,886	111,091		46,857		66,650	41,357	75,850	16,946		
24	New drainage works constructed, enlarged, or installedprojects reporting	4	7		5		8	4	9	3		
25	dollars	29,086	87,517		26,108		66,650	25,370	63,850	4,300		
26	Open ditchesprojects reporting	4	7		5		8	4	9	3		
27	length, miles	10.1	80.3		8.8		26.0	14.8	21.5	5.6		
28	Tile or covered drainsprojects reporting											
29	length, miles											
30	Levees or dikesprojects reporting											
31	length, miles											
32	Pumpeprojects reporting											
33	number of pumps											
34	Other (see text)				•••							
35	Cost of maintenance, operation, repair, and administration	4	4		3			8	6	7		
36	dollars	8,800	23,574		20,749			15,987	12,000	12,646		

land served by two or more projects counted only once.
Acres served by two projects are included for each project. See text.
Fineludes project taken over by enother project prior to 1960. See text.

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

	Item and Census year	Davidson	Duplin	Edgecombe	Forsyth	Gaston	Gates	Greene	Harnett	Hertford		
	AREA											
1	Approximate land areaacres 1960	349,440	526,080	327,040	271,360	229,120	219,520	172,160	387,840	227,840		
2	Land in farmsacres 1953	191,376	324,829	261,636	130,077	102,984	98,401	122,323	235,178	113,803		
8	Drainage projectsnumber 1960	1	12	14	2	4	8	16	1	4		
4	1950	1	9	11	2	4	4	6	1			
5	Total area in drainage projects 1	480	21,052	60,294	3,650	3,873	11,865	20,045	6,286	2,650		
8	1950	480	18,872	58,234	3,650	3,873	4,960	11,437	6,286	·		
7	Area not used for agriculture or not drained acres served 1960			3,500			2,500		·			
8	Net area drained and used for agriculture arres served 1960	480	21,052	56,794	3,650	3,873	9,365	20,045	6,286	2,650		
9	Drainage established before 1950 acres served 1960	480	18,872	54,594	3,650	3,873	5,810	11,437	6,286	·		
10	Area added, 1950-1959 acres served 1960		2,180	2,200			3,555	8,608		2,650		
11	Area served by two or more projects acres served 1960			141								
	PROJECTS, 1960, BY TYPE OF ORGANIZATION											
12	Drains owned by one landowner number of projects									4		
18	acres served ²									2,650		
14	Cooperative or mutual drainsnumber of projects		11	10			7	9				
15	acres served ²		9,110	15,535			6,035	7,518				
16	Legally organized public drains number of projects	1	1	4	2	4	1	7	1			
17	acres served ²	480	11,942	41,400	3,650	3,873	3,330	12,527	6,286			
	PROJECTS, 1980, BY YEAR STARTED											
18	1950-1959 number of projects		3	4			3	10		4		
19	acres served ²		2,180	5,200			3,385	8,608		2,650		
20	Prior to 1950number of projects	1	9	10	2	4	5	6	1			
21	acres served ²	480	18,872	51,735	3,650	3,873	5,980	11,437	6,286			
	DRAINAGE OPERATIONS, 1850-1959 8											
22	Cost of drainage works and servicesprojects reporting		4	6			5	10		4		
23	dollare		12,100	35,057		•••	25,476	42,424		4,000		
24	New drainage works constructed, enlarged, or installedprojecta reporting		3	3			4	10		4		
25	dollars		11,600	3,810			10,708	42,424		4,000		
26	Open ditchesprojects repurting		3	3			4	10		4		
27	length, miles		3.9	1.6			7.2	19.1		2.5		
28	Tile or covered drainsprojects reporting	}										
29	length, miles					•••						
80	Levees or dikes											
81	length, miles											
82	Pumpeprojects reporting											
86	number of pumps											
84	Other (see text)											
85	Cost of maintenance, operation, repair, and administrationprojects reporting		1	3			2					
86	dollars		500	31,247			14,768					
				′ '			.,					

¹Land served by two or more projects counted only once.

Acres served by two projects are included for each project. See text.

²Includes projects taken over by another project prior to 1960. See text.

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

Item and Consus year	Hoke	Hyde	Iredell	Johnston	Jones	Lenoir	Lincoln	McDowell	Martin
AREA									
1 Approximata land area	243,840	405,760	378,240	508,800	298,880	250,240	197,120	282,880	307,84
2 Land is farms	110,403	79,530	250,786	388,977	105,114	202,180	126,667	65,030	190,28
3 Drainage projectsnumber 1960	1	20	13	1	3	17	3		
4 1950	1	17	12		2	7	3	1	
5 Total area in drainage projects acres served 1980	900	50,220	35,771	1,678	13,845	29,304	6,678	985	43,88
8 1950	900	32,454	34,397		1,100	14,039	6,678	985	1,00
7 Area not used for agriculture or not drained acres served 1980									1,50
8 Not area drained and used for agriculture acres served 1960	900	50,220	35,771	1,678	13,845	29,304	6,678	985	42,38
9 Drainage established before 1950 acres served 1960	900	37,095	35,771			14,039	6,678	985	1,00
10 Area added, 1950-1959 acres served 1960		13,125		1,678	13,845	15,265			41,38
Area served by two or more projects acres served 1960		5,180							700
PROJECTS, 1960, BY TYPE OF ORGANIZATION									
12 Drains owned by one landowner		1							
18 acres served ²		7,000			***			•••	1
14 Cooperative or mutual drains		7,000	***			•••	•••		1,700
15 acres served ² .	900	21,078		1,678	9,070	13	•••	•••	2
18 Legally organized public drains number of projects	,,,	21,076	13		9,070	20,540	•••		3,700
acres served ²		28,162	35,771		4,775	8,764	6,678	985	37,685
		,	24,111		4,772	3,704	6,676	962	37,683
PROJECTS, 1980, BY YEAR STARTED									
18 1950-1959 number of projects		7		1	3	10			6
19 scree served ²		23,272		1,678	13,845	15,265			41,385
20 Prior to 1950number of projects	1	13	13			7	3	1	2
acres served	900	32,968	35,771		•••	14,039	6,678	985	1,700
DRAINAGE OPERATIONS, 1950-1959									
22 Cost of drainage works and servicesprojects reporting	(4)	17		(4)	3	1.3			6
dollars	(4)	374,508		(4)	129,266	80,449			267,407
New drainage works constructed, enlarged, or installedprojects reporting		8		(4)	3	11			6
25 dollars		317,279		(4)	129,266	76,604			267,407
Open ditchesprojects reporting		6		(4)	3	11			6
length, miles		48.4		(4)	12.6	26.8			49.7
28 Tile or covered drainsprojects reporting									
length, miles									
Levees or dikeeprojects reporting		2							
length, miles		13.7							
12 Pumpsprojects reporting		2							
number of pumps		5							
Other (see text)projects reporting		5							
So Cost of maintenance, operation, repair, and administration	(4)	14				_			
dollars	(4)	57,229				3 0/5			•••
oblazs	(7)	21,229				3,845			

Land served by two or more projects counted only once.

Acres served by two projects are included for each project. See text.

Includes projects taken over by another project prior to 1960. See text.

Included in State total only.

County Table 1. - DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959 [See text for comparability of 1960 and 1950 data]

-			· · · · · · · · · · · · · · · · · · ·	19 01 1000 8110 1030				T	
	Item and Census year	Mecklenburg	New Hanover	Pamlico	Pasquotank	Pender	Perquimans	Pitt	Robeson
	AREA								
1	Approximate land areaacres 1960	346,880	124,160	218,240	146,560	548,480	167,040	419,840	604,160
2	Land in farmsacres 1959	141,165	17,912	61,781	71,196	138,542	87,611	304,500	387,700
3	Drainage projectsnumber 1980	1	10	15	24	8	16	75	67
4	1950	22		8	23	6	14	49	51
5	Total area in drainage projects 1	41,374	7,900	18,958	22,602	27,299	35,002	217,102	108,197
6	1950	37,649		11,481	20,373	25,779	30,385	200,731	95,620
7	Ares not used for agriculture or not drained acres served 1960	8,867					1,000		
6	Net area drained and used for agriculture acres served 1960	32,507	7,900	18,958	22,602	27,299	34,002	217,102	108,197
9	Drainage established before 1950 acres served 1960	32,507		12,014	21,913	25,779	24,020	200,731	92,430
10	Area added, 1950-1959 acres served 1960		7,900	6,944	689	1,520	9,982	16,371	15,767
11	Area served by two or more projects acres served 1960				5,856			32,366	500
	PROJECTS, 1980, BY TYPE OF ORGANIZATION								
12	Drains owned by one landowner number of projects			1	2	1	1	6	***
13	acres served ²			1,400	3,900	520	900	4,210	
14	Cooperative or mutual drainsnumber of projects		10	11	18	1	12	48	62
15	acres served ²		7,900	13,101	15,092	900	15,902	42,083	65,129
16	Legally organized public drains number of projects	1		3	4	6	3	21	5
17	acres served ²	32,507	***	4,457	9,466	25,879	17,200	203,575	43,568
	PROJECTS, 1980, BY YEAR STARTEO								
18	1950-1959 number of projects		10	6	3	2	6	26	16
19	acres served ²		7,900	6,944	2,731	1,420	11,642	35,617	15,305
20	Prior to 1950number of projects	1		9	21	6	10	49	51
21	acres served ²	32,507		12,014	25,727	25,879	22,360	214,251	93,392
	DRAINAGE OPERATIONS, 1950-1959 ⁸								
22	Cost of drainage works and servicesprojects reporting	1	10	8	9	4	7	38	21
23	dollars	227,275	77,800	48,057	13,180	32,700	33,630	241,354	100,510
24	New drainage works constructed, enlarged, or installedprojecte reporting	1	10	6	5	3	6	30	17
25	dollars	48,000	77,800	46,557	9,863	14,500	32,130	205,482	99,560
26	Open ditchesprojects reporting	1	10	6	5 .	3	6	30	17
27	length, miles	3.0	48.2	19.4	8.4	13.8	14.8	80.0	53.0
28	Tile or covered drainsprojects reporting								
29	length, miles								
30	Levees or dikesprojects reporting								
31	length, miles								
32	Pumpsprojects reporting								
88	number of pumps								
84	Other (see text)								***
35	Cost of maintenance, operation, repair, and administration	1		2	4	1	1	10	4
36	dollars	179,275		1,500	3,317	18,200	1,500	35,872	950
\perp									

Land served by two or more projects counted only once.

Acres served by two projects are included for each project. See text.

Includes projects taxen over by another project prior to 1960. See text.

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

	Item and Census year	Rowan	Sampson	Scotland	Tyrrell	Weshington	Wayne	Wilson
	AREA							
1	Approximate land areaacres 1960	330,880	616,320	202,880	255,360	215,040	355,200	238,720
2	Land in farms acres 1959	188,436	379,782	90,200	37,641	107,938	258,955	190,678
5	Draunage projectsnumber 1960	6	1	2	נו	35	4	3
4	1950	7	1	2	lo	19	2	3
5	Total area in drainage projects 1	76,838	14,436	1,850	25,522	87,523	6,281	3,664
6	1950	79,629	14,436	1,850	17,842	61,228	5,220	3,664
7	Area not used for agriculture or not drained acres served 1960			***	5,000	17,642		
8	Net area drained and used for agriculture acres served 1960	76,838	14,436	1,850	20,522	69,881	6,281	3,664
9	Drainage established before 1950 acres served 1960	76,838	14,436	1,850	12,022	56,155	5,220	3,664
10	Area added, 1950-1959 acree served 1960				8,500	13,726	1,061	
11	Area served by two or more projects acres served 1980	640				16,495		
	PROJECTS, 1960, BY TYPE OF ORGANIZATION							
12	Drains owned by one landowner number of projects					9		
13	acres served ²					28,841		
14	Cooperative or mutual drains			2	10	22	2	2
15	acres served ² .			1,850	16,880	29,506	1,061	1,864
16	Legally organized public drainsnumber of projects	6	1		3	4	2	1
17	acres served ²	77,478	14,436		3,6-2	28,029	5,220	1,800
	PROJECTS, 1960, BY YEAR STARTED							
18	1950-1959number of projects				4	15	2	
19	acres served ²				4,500	39,685	1,061	
20	Prior to 1950number of projects	6	1	2	9	20	2	3
21	acres served ² .	77,478	14,436	1,850	16,022	46,691	5,220	3,664
	DRAINAGE OPERATIONS, 1950-1959							
22	Cost of drainage works and servicesprojects reporting	1		2	8	26	3	1
23	dollars	600		1,100	156,084	342,600	9,055	1,000
24	New drainage works constructed, enlarged, or installedprojects reporting				5	12	2	
25	dollars				77,670	227,250	7,555	• • • • • • • • • • • • • • • • • • • •
26	Open ditchesprojects reporting				5	12	2	
27	length, miles				29.1	259.0	3.8	•••
28	Tile or covered drainsprojects reporting				2312	1		
29	length, miles					4.1		
30	Levees or dikes					1		
31	length, miles	•••				7.0		•••
32	Pumpsprojects reporting	•••				1		
33	number of pumps					2		
34	Other (see text)							
35	Cost of maintenance, operation, repair, and	•••				***	***	
~	administrationprojects reporting	1		2	5	19	1	1
36	dollars	600		1,100	78,414	115,350	1,500	1,000

land served by two or more projects counted only once.

Acres served by two projects are included for each project. See text.

Includes projects taken over by another project prior to 1960. See text.



State Table 1.-DRAINAGE PROJECTS-NUMBER, AREA, COST, AND WORKS, 1920 TO 1960

[See	text for comparability of da	uta]			
l Lores	1960 Census	1950 Census	1940 Census	1930 Census	1920 Census
AREA					
Approximate land areaacros	44,452,480	44,836,480	44,834,560	44,917,120	44,917,12
Land in farmsacres	41,465,717	41,194,044	37,936,136	38,657,894	36,214,75
Drainage projectsnumber	161	21	¹ 141	NA.	N.
Total area in drainage projects	1,642,543	1,572,220	1,376,041	1,094,142	1,240,32
Area not used for agriculture or not drained	1,360	NA I	NA.	NA.	N.
Not area drained and used for agricultureacres served	1,641,183	NA.	² 1,322,573	² 1,094,114	N
Drainage established 10 years or more before Census date	1,517,023	NA.	NA.	NA.	N
Drainage established within 10 years of Census date	124,160	NA	NA.	NA .	N
Area served by two or more projectsacres served	87,840	NA.	464,740	89,240	
PROJECTS BY TYPE OF ORGANIZATION					
		(2)			
Drains owned by one landownernumber of projects		(³)	NA (3)	NA (2)	
acres served		(3)	(-)	(3)	
Cooperative or mutual drains	144	` '			
acres served	200,630	(3)	***	•••	
Legally organized public drainsnumber of projects	17	³ 15	NA .	NA.	N.
acres served	1,531,553	³ 1,565,055	31,356,113	³ 1,088,053	1,240,328
PROJECTS BY YEAR STARTED				}	
Started 10 years or more before Census datenumber of projects	134	NA.	NA.	NA.	N
acres served	1,676,633	NA.	1,376,041	1,064,423	875,054
Started within 10 years of Census datenumber of projects	27	NA		NA.	Na
acres served	55,550	NA		29,719	365,274
OPERATIONS, 10-YEAR PERIOD PRECEDING CENSUS DATE					
Cost of drainage works and services	41	13	NA.	NA NA	N.
dollars	1,672,790	890,373	NA NA	NA.	N
New drainage works constructed, enlarged, or installed	37	46	NA	NA.	N/
cost, dollars	649,652	4245,364	NA	NA	NJ
Open ditches	35	6	NA.	NA.	N/
length, mules	168.5	94	NA.	NA	NJ
Tile or covered drains	***	•••	NA.	NA NA	N
length, miles	•••		NA	N.A.	N
Levees or dukesprojects reporting	1	•••	NA.	N.A.	N
length, miles	3.5		NA.	NA	NJ.
Pumps projects reporting		NA .	NA	NA.	N
number of pumps		NA.	NA	NA.	N.F
Other (see text) projects reporting	2	N.A.	NA.	NA NA	NJ
Cost of maintenance, operation, repair, and administration projects reporting	13	13	NA.	NA NA	NJ
dollare	1,023,138	645,009	NA.	NA.	N.
STATUS ON CENSUS DATE					
Capital investmentdollars	NA NA	NA	3,673,336	3,148,919	2,208,04
Physical works:					
Open ditcheslength, miles	NA NA	NA.	940.4	817.6	708.
Tile drains	NA NA	NA	10.4	9.6	9.
Levees and dikes	NA NA	NA :	•••		2.7
Pumping unitsnumber of units	NA .	NA NA			

NA Not awailable.

In 1940, each county drain was counted as a separate project. See text.

Not fully comparable. See text.

In 1950, all projects included with county drains except 6 counties and 7,165 acres from Census of Irrigation; in 1940, figures exclude 19,928 acres in "irrigation enterprises"; in 1930, figures exclude 6,089 acres in "irrigation enterprises"; Cost of new works for land not previously drained.

State Table 2.-DRAINAGE

			ed`and used lture, 1960	Area by period drainage was established					
Size of project (Based on area of agricultural land in project)	Number of projects		Served by two	Befor	e 1950	Area added 1950-1959			
		Total (acres)	or more projects (acres)	Projects reporting	Acres	Projects reporting	Acres		
All projects	161	1,732,183	178,840	144	1,608,023	29	124,16		
500 to 999 acres.	78	52,640	22,690	67	45,090	11	7,55		
1,000 to 1,999 acres	45	62,610	23,680	43 .	57,170	4	5,44		
2,000 to 4,999 acres	19	56,660	31,670	16	46,940	4	9,72		
5,000 to 9,999 acres	9	63,648	14,400	8	47,428	3	16,22		
10,000 to 19,999 acres	1	18,176		1	18,176				
20,000 to 49,999 acres	2	87,228	2,800	2	69,820	1	17,40		
50,000 to 99,999 acres	1	59,309	1,440	1	59,069	1	24		
100,000 or more acres	6	1,331,912	82,160	6	1,264,330	5	67,58		

State Table 3.-DRAINAGE PROJECTS, 1960,

		Area draine for agricul		Area by period drainage was established					
Type of organization	Number of projects	Total	Served by two	Before 1950		Area added 1950-1959			
		(acres)	projects (acres)	Projects reporting	Acres	Projects reporting	Acres		
All projects	161	1,732,183	178,840	144	1,608,023	29	124,160		
Drains owned by one landowner									
Cooperative or mutual drains	144	200,630	89,680	128	169,330	18	30,75		
Legally organized public drains	17	1,531,553	89,160	16	1,438,143	11	93,410		

State Table 4.-DRAINAGE PROJECTS, 1960,

			Area by period drainage was established					
Number of		Served by two	Befor	e 1950	Area added 1950-1959			
projects	Total (acres)	or more projects (acres)	Frojects reporting	Acres	Projects reporting	Acres		
161	1,732,183	178,840	144	1,608,023	29	124,16		
27	55,550	13,960	10	19,080	21	36,45		
134	1,676,633	164,880	134	1,588,943	8	87,6		
	projects 161 27	Number of projects Total (acres) 161 1,732,183 27 55,550	projects Total (acres) or more projects (acres) 161 1,722,183 178,8-0 27 55,550 13,960	Number of projects Total (acres) Served by two Befor more projects (acres) 101 1,722,183 178,840 104 27 55,550 13,960 10	Number of projects Total (acres) Served by two projects (acres) Total	Number of projects Total (acres) Served by two projects (acres) Total		

PROJECTS, 1960, BY SIZE

0 th	Pumps		Levees and dikes		ered drains	Tile or cov	itches	Open d	works	For new	tal	To
proje repo	Number	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Frojects reporting	Dollars	Projects reporting	Dollars	Projects reporting
			3.5	1			168.5	35	649,652	37	1,672,790	41
							30.2	15	40,645	15	40,845	15
							11.2	4	18,244	4	21,944	6
							23.0	6	27,648	6	27,648	6
							21.4	3	80,996	3	125,443	5
									20,000	1	22,340	1
							20.7	1	58,637	1	62,731	1
							4.7	1	6,059	1	14,893	1
			3.5	1			57.3	5	397,423	6	1,356,946	6

BY TYPE OF ORGANIZATION

Cost of d	rsinage works	and services,	1950-1959			New works	constructed, e	enlarged, or i	nstalled, 195	0-1959		
To	tal	For new	works	Open d	Open ditches Tile or covered drains		Levees and dikes		Pumps		Other,	
rojects reporting	Dollars	Projects reporting	Dollars	Frojects reporting	Length (miles)	Frojects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number	projects reporting
41	1,672,790	37	649,652	35	168.5			1	3.5			2
26	113,219	24	109,319	24	68.7					`		
15	1,559,571	13	540,333	11	99.8			1	3.5			2

BY YEAR OF ORGANIZATION

Cost of d	rsinage works	and services,	1950-1959			New works	constructed, e	nlarged, or i	nstalled, 195	0-1959		
To	otal	Projects			(tches	Tile or covered drains Levees and dikes			nd dikes	es Pumps		
Projects reporting	Dollers	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Frojects reporting	Length (miles)	Projects reporting	Number	projects reporting
41	1,672,790	37	649,652	35	168.5			1	3.5			2
27	158,137	27	157,937	27	82.3							
14	1,514,653	10	491,715	8	86.2			1	3.5		•…	2

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

_		LEA-	se text for comparat	mey or 1000 and 1	eur dadaj					
	Item and Census year	The State	Barnes	Benson	Bottineau	Cass	Cavalier	Grand Forks	LeMoure	McHenry
	AREA									
1	Approximate land areaacres 1980	44,452,480	945,920	903,680	1,087,360	1,119,360	968,320	920,320	727,680	1,209,600
2	Land in farmsacres 1959	41,465,717	927,852	811,326	1,003,165	1,101,422	929,113	865,313	718,172	
3	Drainage projectsnumber 1960	161	1	2	1,005,105	45	1	18	10,172	1,113,455
4	1950	21	1		1	1	1	1	1	1
5	Total area in drainage projects 1scres served 1960	1,642,543	5,420	1,100	46,592	384,238	5,504	149,164	3,680	6,724
6	1950	1,572,220	2,960		50,688	336,918	5,504	137,472	3,680	10,920
7	Area not used for agriculture or not drained acres served 1960	1,360				1,360				20,720
8	Net area drained and used for agriculture acres served 1960	1,641,183	5,420	1,100	46,592	382,878	5,504	149,164	3,680	6,724
9	Drainage established before 1950 acres served 1960	1,517,023	2,960		29,184	334,628	5,504	137,472	3,680	6,724
10	Area edded, 1950-1959acres served 1960	124,160	2,460	1,100	17,408	48,250		11,692		0,,,,,,
11	Area served by two or more projectsacres served 1960	87,840				45,520		12,360		
	,	07,010				17,720		,		
	PROJECTS, 1960, BY TYPE OF ORGANIZATION									
12	Drains owned by one landowner number of projects									
13	acres served ²									
14	Cooperative or mutual drainsnumber of projects	144		2		44		16		
15	acres served ²	200,630		1,100		98,070		21,530		
18	Legally organized public drains number of projects	17	1		1	1	1	2	1	1
17	acres served ²	1,531,553	5,420		46,592	332,248	5,504	141,234	3,680	6,724
	PROJECTS, 1960, BY YEAR STARTED									
18	1950-1959 number of projects	27		2		8		7		
19	acres served ²	55,550		1,100		25,420		8,280		
20	Prior to 1950number of projects	134	1		1	37	1	11	1	1
21	acres served ²	1,676,633	5,420		46,592	404,898	5,504	154,484	3,680	6,724
	DRAINAGE OPERATIONS, 1950-1959 8									
		41	1	2	1	9	1	9		,
	Cost of drainage works and servicesprojects reporting		_	~	-		_	1	•••	1
23	dollars	1,672,790	9,596	1,814	62,731	376,437	12,764	159,678		31,683
24	New drainage works constructed, enlarged, or installedprojects reporting	37	1	2	1	9		8		
25	eralfob	649,652	9,596	1,614	58,637	276,099		75,678		
26	Open ditchesprojects reporting	35	1	2	1	9		8		
27	length, miles	168.5	3,5	1.3	20.7	53.5		23.3		•••
28	Tile or covered drainsprojects reporting									
29	length, miles									
30	Levees or dikesprojects reporting	1								
31	length, miles	3.5								
32	Pumpeprojects reporting									
33	number of pumps									
34	Other (see text)projects reporting	2								
35	Cost of maintenance, operation, repair, and administration	13		1	1	1	1	2	ļ	. 1
36	dollers	1,023,138	1	200	-	- 1	-			_
20	oouses	1,000,138		200	4,094	100,338	12764	84,000		31,683

¹Land served by two or more projects counted only once.

²Acres served by two projects are included for each project. See text.

³Includes projects taken over by another project prior to 1960. See text.

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

				onity of 1900 and 1			-			
	Item and Consus year	Pembina	Ramsey	Rensom	Richland	Sargent	Steele	Traill	Walsh	All other counties1
	AREA									
1	Approximate land areancres 1960	719,360	776,960	552,320	928,000	547,200	454,400	551,040	823,680	8,651,520
2	Land ie farmsacres 1959	690,735	752,948	476,584	853,270	514,375	441,175	531,713	816,445	7,943,567
3	Drainage projectsnumber 1960	5	1	5	36	3	2	25	14	
	1950	1	1	1	1	1		1	1	7
5	Total area in drainage projects 2	255,959	18,176	41,216	305,114	158,451	1,400	193,006	66,799	
	1950	243,139	18,176	41,216	291,234	158,451		177,816	63,329	30,717
	Area not used for agriculture or not drained acres served 1960,									
								***		***
8	Net area drained and used for agriculture acres served 1960, , ,	255,959	18,176	41,216	305,114	158,451	1,400	193,006	66,799	
9	Drainage established before 1950 acres served 1960	243,139	18,176	41,216	293,834	158,451	•••	177,816	64,239	
10	Area added, 1950-1959 acres served 1960	12,820			11,280		1,400	15,190	2,560	
11	Area served by two or more projects, acres served 1960	1,000	•••	2,800	14,560	640		9,360	1,600	
	PROJECTS, 1980, BY TYPE OF ORGANIZATION									
12	Drains owned by one landowner number of projects									
13	acres served 3									
14	Cooperative or mutual drainsnumber of projects	4		4	35	2	2	22	13	
15	acres served ³	4,640		3,380	39,190	1,240	1,400	20,990	9,090	
16	Legally organized public drainsnumber of projects	1	1	1	1	1		3	1	
17	acres served ³	252,319	18,176	40,636	280,484	157,851		181,376	59,309	
	PROJECTS, 1980, BY YEAR STARTED									
18	1950-1959 number of projects				2		2	4	2	
19	acres served 3				5,120		1,400	11,910	2,320	
20	Prior to 1950number of projects	5	1	5	34	3		21	12	
21	acres served 3	256,959	18,176	44,016	314,554	159,091		190,456	66,079	
	DRAINAGE OPERATIONS, 1950-1959 ⁴									
22	Cost of drainage works and services projects reporting	1	1		3	1	2	6	3	
23	dollars	488,272	22,340		195,265	2,998	5,999	281,501	21,712	
	New drainage works constructed, enlarged,	,			,	_,	.,	, , , , , ,		
	or installed,projects reporting	1	1		3	1	2	5	3	
25	dollars	47,024	20,000		42,473	2,998	5,999	96,656	12,878	•••
26	Open ditchesprojects reporting	1			3		2	5	3	
27	length, miles	15.2			13.9		5.0	23.5	8.6	
28	Tile or covered drainsprojects reporting									
29	length, miles									
30	Levees or dikes					1				
31	length, miles					3.5				
32	Pumpeprojects reporting									
38	number of pumpe									
34	Other (see text)projects reporting		1			1				
35	Cost of maintenance, operation, repair, and									
	administrationprojects reporting	1	1		1	***		2	1	
36	dollars	441,248	2,340	'	152,792			184,845	8,834	•••

Includes Divide, Grant, McKensie, Morton, Mountrail, Ward, and Williams counties.

Land served by two or nore projects counted only once.

Acres served by two projects are included for each project. See text.

Local Sec



State Table 1. – DRAINAGE PROJECTS-NUMBER, AREA, COST, AND WORKS, 1920 TO 1960

[See text for comparability of data]

	T TO THE COMPANY OF CO.	7	,		
Item	1960 Census	1950 Cenaus	1940 Census	1930 Census	1920 Census
AREA					octange.
Approximate land area	26,222,080	26,240,000	26,318,080	26,073,600	26,073,60
Land in farms	18,506,796	20,969,411	21,907,523	21,514,059	23,515,88
Drainage projectsnumber	142	63	111,530	NA.	25,515,00
Total area in drainage projects	8,904,907	8,923,362	7,729,267	8,165,494	8,107,20
Area not used for agriculture or not drained	95,492	NA.	NA.	NA.	,
Net area drained and used for agriculture	8,809,415	NA.	27,173,937	28,132,973	,
Drainage established 10 years or more before Census date	8,747,745	NA.	NA.	NA.	,
Drainage established within 10 years of Census dateacres served	61,670	NA.	NA.	NA.	2
Area served by two or more projectsacres served	64,162	NA.	17,482,794	15,845,135	15,357,60
PROJECTS BY TYPE OF ORGANIZATION					
Drains owned by one landownernumber of projects	3	(3)			N N
scres served.	2,424	(3)			47,73
Cooperative or mutual drainsnumber of projects	76	(3)			ĺ
acres served ⁸	88,555	(3)			
Legally organized public drainsnumber of projects	63	363	NA.	NA.	N
acres served	8,782,878	38,923,362	7,729,267	8,165,494	48,097,55
PROJECTS BY YEAR STARTED					
	79	NA.			
Started 10 years or more before Census date		NA NA	NA	NA DAY OAK	57,161,64
acres served Started within 10 years of Census date	8,805,054	NA.	6,404,904 NA	7,784,986 NA	N N
acres served	68,803	NA NA	1,324,363	380,508	5943,20
acres serveu	00,800	, an	1,524,505	300,500	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
OPERATIONS, 10-YEAR PERIOD PRECEDING CENSUS DATE					
Cost of drainage works and services	113	54	NA.	NA.	N.
dollars	8,268,377	6,189,421	NA NA	NA.	N.
New drainage works constructed, enlarged, or installed projects reporting	53	68	NA.	NA.	N.
cost, dollars	267,635	6147,941	NA.	NA NA	N
Open ditches	47	8	NA NA	NA	N.
length, miles	57.3	38	NA NA	NA NA	N.
Tile of covered drains	18	7	NA NA	NA NA	N.
length, miles	68.7		NA NA	NA NA	N.
Levees or dikes	•••	•••	NA NA	NA NA	N.
length, miles	•••	NA	NA NA	NA NA	N.
Pumps projects reporting		NA.	NA NA	NA.	, n
number of pumps Other (see text) projects reporting	6	NA NA	NA NA	NA.	N.
Cost of maintenance, operation, repair, and administration	77	53	NA.	NA.	N.
dollars	8,000,742	6,041,480	NA.	NA.	N.
м/шо»	2,222,112	-,,			
STATUS ON CENSUS DATE					
Capital investment	NA NA	NA	35,215,586	36,836,449	30,680,14
Physical works: Open ditches	NA .	NA	18,732.2	25,048.2	24,984.0
Tile drainslength, miles	NA NA	NA	10,163.9	9,371.6	9,205.
Levees and dikeslength, miles	NA NA	NA	5.2	0.3	9.6
Pumping unitsnumber of units	NA NA	NA		1	N.
. •					

NA Not available.

In 1940, each county drain was counted as a separate project. See text.

Plot fully comparable. See text.

All projects in 1950 included with county drains. See text.

Plot fully comparable sections of the section of the sectio

State Table 2.-DRAINAGE

			ed and used lture, 1960	Ares	by period drains	nge was establishe	d
Size of project (Based on area of agricultural land in project)	Number of projects		Served by two	Befor	e 1950	Area added	1950-1959
		Total (scres)	or more projects (scres)	Projects reporting	Acres	Projects reporting	Acres
All projects	142	8,873,857	128,604	122	8,812,187	38	61,670
500 to 999 acres	46	31,479	19,244	32	21,537	18	9,94
1,000 to 1,999 acres	28	38,053	26,658	23	30,623	7	7,43
2,000 to 4,999 acres	13	42,520	18,540	12	39,520	2	3,00
5,000 to 9,999 acres	1	5,536		1	5,536		
10,000 to 19,999 acres	8	118,498		8	117,818	1	68
20,000 to 49,999 scres	6	238,003	9,880	6	232,474	2	5,52
50,000 to 99,999 scres	7	532,618	10,171	7	519,504	2	13,11
100,000 or more scres	33	7,867,150	44,111	33	7,845,175	6	21,97

State Table 3.-DRAINAGE PROJECTS, 1960,

		Area drained for agricul		Ares	a by period drsine	ge was establishe	ed.	
Type of organization	Number of projects	Total	Served by two	Before	1950	Area added 1950-1959		
	Projector	(acres)	or more projects (acres)	Projects reporting	Acres	Projects reporting	Acrea	
All projects.	142	8,873,857	128,604	122	8,812,187	38	61,67	
Drains owned by one landowner	3	2,424	1,924	3	2,424			
Cooperative or mutual drains	76	88,555	62,518	56	68,183	27	20,35	
Legally organized public drains	63	8,782,878	64,162	63	8,741,580	11	41,2	

State Table 4.-DRAINAGE PROJECTS, 1960,

		Area draine for agricul		Area by period drainage was established					
Year of organization	Number of projects		Served by two	Befor	e 1950	Ares added 1950-1959			
	projecta	Total (scres)	or more projects (acres)	Projects Acres		Projects reporting	Acres		
All projects	142	8,873,857	128,604	122	8,812,187	38	61,67		
1950-1989	63	68,803	47,911	43	49,411	25	19,39		
Prior to 1950	79	8,805,054	80,693	79	8,762,776	13	42,27		

PROJECTS, 1960, BY SIZE

ost of dr	rainage works s	ind services,	1950-1959			New works o	onstructed, e	nlarged, or in	nstalled, 195	0-1959		
Tot	ta1	For new	works	Open d	itches	Tile or cove	red drains	Levees a	nd dikes	Pump	ps	Other,
jects orting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number	projects reporting
113	8,268,377	53	267,635	47	57.3	18	68.7					6
36	211,169	29	141,975	27	34.0	9	58.7					4
24	65,459	16	30,665	15	14.1	1	1.0					1
7	33,667	2	7,740	1	0.6	2	0.7					
2	267,672											
4	124,744	1	6,402	1	1.4	1	0.1					
7	252,009	1	22,500	1	6.0	1	1.7					
33	7,313,657	4	58,353	2	1,2	4	6.5					

BY TYPE OF ORGANIZATION

Cost of d	rsinage works	and services,	1950-1959			New Works	constructed, e	miarged, or	nstarred, 19:	10-1929		
To	tal	For new	works	Open d	itches	Tile or cove	red drains	Levees a	nd dikes	Pump	s	Other,
Projects reporting	Dollars	Frojects reporting	Dollars	Frojects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number	projects reporting
113	8,268,377	53	267,635	47	57.3	18	68.7					6
2	76,900	2	40,900	2	2,3	1	37.7					
65	233,395	45	139,480	41	46.4	11	22.7					5
46	7,958,082	6	87,255	4	8.6	6	8.3					1

BY YEAR OF ORGANIZATION

		0-1959	nstalled, 195	larged, or in	constructed, er	New works			1950-1959	and services,	irainage works	Cost of d
Other	Ришря		nd dikes	Levees ar	ered drains	Tile or cov	Itches	Open di	For new works		otal	To
repor	Number	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting
					68.7	18	57.3	47	267,635	53	8,268,377	113
					22.7	11	45.4	40	139,300	4.	220,250	62
					46.0	7	11.9	7	128,335	9	8,048,127	51

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

Item and Census year	The State	Allen	Ashland	Ashta- bula	Auglaize	Brown	Butler	Chem- paign	Clark
AREA									
Approximate land areaacres 1960	26,222,080	262,400	267,520	451,840	256,000	314,240	301,440	277,120	257,28
Land in farmsacres 1959	18,506,796	206,047	214,151	243,120	232,589	269,075	219,987	247,776	211,76
Drainage projectsnumber 1960	142	1	1	1	2	6	2	9	
1950	63	1	1	1	1	1	1	1	
Total area in drainage projects 1	8,904,907	215,018	11,059	45,000	247,223	8,005	4,581	174,245	43,95
1950	8,923,362	227,520	11,059	45,000	247,223	4,059	3,941	165,376	31,24
Area not used for agriculture or not drained acres served 1960	95,492			2,880					
Net area drained and used for agriculture acres served 1960	8,809,415	215,018	11,059	42,120	247,223	8,005	4,581	174,245	43,95
Drainage esteblished before 1950 acres served 1960	8,747,745	215,018	11,059	42,120	247,223	4,059	3,941	168,046	35,17
Area added, 1950-1959 acres served 1960	61,670					3,946	640	6,199	8,78
Area served by two or more projects acres served 1960	64,162				600			10,482	50
PROJECTS, 1960, BY TYPE OF ORGANIZATION									
Drains owned by one landowner number of projects	3								
acres served ²	2,424								
Cooperative or mutual drainsnumber of projects	76				1	5	1	8	
acres served ²	88,555				600	3,946	640	13,492	5,29
Legally organized public drains number of projects	63	1	1	1	1	1	1	1	
acres served ²	8,782,878	215,018	11,059	42,120	247,223	4,059	3,941	171,235	39,16
PROJECTS, 1960, BY YEAR STARTED									
1950-1959 number of projects	63				1	5	1	5	
acres served ²	68,803				600	3,946	640	5,662	3,61
Prior to 1950number of projects	79	1	1	1	1	1	1	4	
acres served ²	8,805,054	215,018	11,059	42,120	247,223	4,059	3,941	179,065	40,84
DRAINAGE OPERATIONS, 1950-1959 ⁸									
Cost of drainage works and servicesprojects reporting	113	1	1		2	5	(4)	9	
dollars	8,268,377	408,095	257,626		215,048	15,327	(4)	59,772	91,48
New drainage works constructed, enlarged, or installedprojects reporting	53			***	(4)	5	(4)	4	
dollars	267,635				(4)	15,327	(4)	11,779	10,75
Open ditchesprojects reporting	47					5	(4)	3	
length, miles	57.3					11.4	(4)	2.2	3,
Tile or covered drainsprojects reporting	18			***	(4)			2	
length, miles	68.7				(4)			2.2	5.
Levees or dikes projects reporting									
length, miles			***						
Pumpsprojects reporting									
number of pumps									
Other (see text)	6				(4)				
Cost of maintenance, operation, repair, and									
administration	77	1	1		(4)			9	1
dollars	8,000,742	408,095	257,626		(4)			47,993	80,731

Land served by two or more projects counted only once.

Acres served by two projects are included for each project. See text.

Includes projects taken over by another project prior to 1960. See text.

Included in State total only.

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data |

	100	ee text for compara	oility of 1960 and 1	950 data					
Item and Census year	Clermont	Clinton	Crawford	Cuyahoga	Darke	Defiance	Delaware	Erie	Fairfield
AREA									
1 Approximate land areaacres 1960	293,120	263,040	258,560	291,840	387,200	262,400	281,600	168,960	222 200
2 Land in farmsacres 1959	174,283	237,121	234,868	19,889	359,523	235,195	235,397	114,018	323,200
a Draunage projectsnumber 1960	1	3	3	1	1	1	4	1	267,340
4 1950	1	1	1	1	1	1	1	1	1
Total area in drainage projects 1	2,130	96,882	157,472	16,640	387,200	253,952	189,440	125,512	48,890
6 1950	2,130	96,882	152,072	33,280	387,200	241,152	189,056	128,512	46,365
7 Area not used for agriculture or not drained acres served 1960			680		1,400				2,080
8 Net area drained and used for agriculture acres served 1960	2,130	96,882	156,792	16,640	385,800	253,952	189,440	125,512	46,810
9 Drainage established before 1950 acres served 1960	2,130	96,882	150,392	16,640	385,800	253,952	189,056	125,512	46,810
10 Area added, 1950-1959 acres served 1960			6,400				384		
Area served by two or more projectsacres served 1960		2,454	3,274				2,724		2,700
PROJECTS, 1960, BY TYPE OF ORGANIZATION									
Drains owned by one landowner number of projects			1						
acres served ²			824						
14 Cooperative or mutual drainsnumber of projects		2	1				3		2
acres served ²		2,454	2,450				3,004		2,700
16 Legally organized public drainsnumber of projects	1	1	1	1	1	1	1	1	1
acres served ²	2,130	96,882	156,792	16,640	385,800	253,952	189,440	125,512	46,810
PROJECTS, 1960, BY YEAR STARTED									
18 1950-1959 number of projects		2	1				1		1
8 acres served 2		2,454	2,450				1,700		1,200
Prior to 1950number of projects	1	1	2	1	1	1	3	1	2
acres served ²	2,130	96,882	157,616	16,640	385,800	253,952	190,744	125,512	48,310
DRAINAGE OPERATIONS, 1950-1959 ³									
2 Cost of drainage works and services		3	2		1	1	2	1	1
dollars	***	32,861	104,634		38,000	155,178	35,999	53,414	2,925
New drainage works constructed, enlarged, or installed		3							
dollars		28,642							
6 Open ditchesprojects reporting		3							
r length, miles		7.6							
8 Tile or covered drainsprojects reporting		1							
length, miles		1.7							
0 Levees or dikes									
length, miles									
Pumpsprojects reporting	***								
3 number of pumps									
4 Other (see text)									
5 Cost of maintenance, operation, repair, and administration		1	2		1	1	2	1	1
6 dollars		4,219	104,634		38,000	155,178	35,999	53,414	2,925
							1		

land served by two or more projects counted only once.
Acres served by two projects are included for each project. See text.
Includes projects taken over by another project prior to 1960. See text.

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959 [See text for comparability of 1960 and 1950 data]

	Item and Census year	Fayette	Franklin	Fulton	Geauga	Greene	Hancock	Herdin	Henry	Holmes
	AREA									
1	Approximate land areaacres 1960	259,840	343,680	260,480	260,480	266,240	340,480	298,880	266,240	270,720
2	Land in farmsacres 1959	251,643	198,660	245,550	115,563	218,783	323,038	262,170	250,069	222,446
3	Drainage projectsnumber 1980	1	1	1	1	5	1	2	1	1
4	1950	1	1	1	1	1	1	1	1	1
5	Total area in drainage projects 1acres served 1980	252,992	290,300	256,371	4,397	46,489	335,083	298,880	264,140	5,536
6	1950	252,992	292,860	256,371	4,397	43,804	335,883	298,880	264,140	5,536
7	Area not used for agriculture or not drained, ecres served 1960	1,600	27,872					1,760		
8	Not area drained and used for agriculture acres served 1960	251,392	262,428	256,371	4,397	46,489	335,083	297,120	264,140	5,536
9	Drainage established before 1950 acres served 1960	251,392	262,428	256,371	4,397	45,674	335,083	297,120	264,140	5,536
10	Area added, 1950-1959 acres served 1960					815				
11	Area served by two or more projects acres served 1980					6,680		1,100		
	PROJECTS, 1980, BY TYPE OF ORGANIZATION									
12	Drains owned by one landowner									
13	acres served ²									
14	Cooperative or mutual drains					4		1		
15	acres served ²					7,450		1,100		
16	Legally organized public drainsnumber of projects	1	1	1	1	1	1	1	1	1
17	acres served ²	251,392	262,428	256,371	4,397	45,719	335,083	297,120	264,140	5,536
	PROJECTS, 1960, BY YEAR STARTED									
18	1950-1959 number of projects					2		1		
19	acres served ²					2,200		1,100		
20	Prior to 1950number of projects	1	1	1	1	3	1	1	1	1
21	acres served ²	251,392	262,428	256,371	4,397	50,969	335,083	297,120	264,140	5,536
-	DRAINAGE OPERATIONS, 1950-1959									
22	Cost of drainage works and services	1	1	1		3	1	2	1	•••
23	dollars	61,950	62,914	358,762		16,650	349,499	250,456	256,716	
24	New drainage works constructed, enlarged, or installed					3		2		
25	dollars			•••		11,402		3,992		
26	Open ditches projects reporting					3				
27	length, miles					3.9				
28	Tile or covered drainsprojects reporting					1		1		
29	length, miles					0.1		0.7		
30	Levees or dikes									
31	length, miles									
32	Pumpeprojects reporting									
83	number of pumps									
34	Other (see text)							2		
35	Cost of maintenance, operation, repair, and administrationprojects reporting	1	1	1		. 1	1	1	1	
36	dollars	61,950	62,914	358,762		5,248	349,499	246,464	256,716	

Land served by two or more projects counted only once.

Acres served by two projects are included for each project. See text.

Includes projects taken over by another project prior to 1960. See text.

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

	Item and Census year	Huron	Knox	Licking	Logan	Lorain	Lucas	Madison	Mahoning	Marion
	AREA									
1	Approximate Isnd areaacres 1960	318,080	334,720	439,040	295,040	316,800	219,520	296,960	268,160	259,200
2	Land in farmsacres 1959	271,221	267,942	322,017	247,875	192,656	100,885	277,601	120,877	225,069
a	Druinage projectsnumber 1960	6	1	3	3	2	1	5	1	4
4	1950	1	1	1	1	1	1	1	1	1
5	Total area in drainage projects 1acres served 1960	99,509	13,286	79,283	246,871	190,165	178,843	270,216	1,720	248,47
8	1950	98,584	13,286	79,283	246,871	190,165	178,843	261,216	1,720	246, 392
7	Area not used for agriculture or not drained acres served 1960					9,600	36,440			1,440
6	Net area drained and used for agriculture acres served 1960	99,509	13,286	79,283	246,871	180,565	142,403	270,216	1,720	247,032
9	Drainage established before 1950 scres served 1960	98,984	13,286	79,283	246,871	180,565	142,403	270,216	1,720	244,952
10	Area added, 1950-1959 acres served 1960	525								2,080
11	Area served by two or more projects acres served 1960	2,837		1,850	4,345	850		3,150		1,882
	PROJECTS, 1960, BY TYPE OF ORGANIZATION									
12	Drains owned by one landowner number of projects									
13	acres served ²									
14	Cooperative or mutual drainsnumber of projects	5		2	2	1		4		
15	acres served ² .,	3,362		1,850	4,345	850		3,150		1,882
16	Legally organized public drainsnumber of projects	1	1	1	1	1	1	1	1	,
17	acres served ² .,	98,984	13,286	79,283	246,871	180,565	142,403	270,216	1,720	247,032
	PROJECTS, 1960, BY YEAR STARTED									
18	1950-1959number of projects	5		2	2	1		4		
19	acres served ²	3,362		1,850	4,345	850		3,150		
20	Prior to 1950number of projects	1	1	1	1	1	1	1	1	4
21	acres served 2	98,984	13,286	79,283	246,871	180,565	142,403	270,216	1,720	248,914
	DRAINAGE OPERATIONS, 1950-1959 ⁵									
22	Cost of drainage works and servicesprojects reporting	6		3	3	2	1	5		1
23	dollars	98,024		22,143	172,988	110,379	927,528	121,201		141,369
24	New drainage works constructed, enlarged, or installed	2				(4)		4		
25	dollars	9,900				(4)		27,079		
28	Open ditchesprojects reporting	2				(4)		3		
27	length, miles	0.9				(4)		1.8		
28	Tile or covered drainsprojects reporting	1						. 2		
29	length, miles	9.1						2.3		
30	Levees or dikes									
31	longth, miles									
52	Pumpsprojects reporting									
33	number of pumpe									
34	Other (see text)projects reporting									
35	Cost of maintenance, operation, repair, and administration	4		3 i	3	(4)	1	2		1
38	dollars	88,124		22,143	172,988	(4)	927,528	94,122		141,369
				i						

Land served by two or more projects counted only once.

Acres served by two projects are included for each project. See text.

Includes projects taken over by another project prior to 1960. See text.

Thickneed in State total only.

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

	Item and Census year	Medina	Mercer	Miami	Mantgomery	Morrow	Muskingum	Ottawa	Paulding	Perry
	AREA									
1	Approximate land areaacres 1960	271,360	290,560	260,480	297,600	258,560	424,320	168,320	266,240	261,760
2	Land in farmsacres 1959	174,970	280,793	220,429	174,466	223,076	276,555	120,097	244,117	138,392
3	Drainage projectsnumber 1960	1	4	2	6	1	1	1	1	1
4	1950	1	1	1	1	1	1	1	1	1
5	Total area in drainage projects 1	16,825	287,060	189,176	61,260	82,179	1,500	138,583	262,690	2,743
6	1950	17,355	287,060	185,344	60,160	80,859	1,500	139,993	262,690	2,743
7	Area not used for agriculture or not drained , acres served 1960									
8	Net area drained and used for agriculture acres served 1960	16,825	287,060	189,176	61,260	82,179	1,500	138,583	262,690	2,743
9	Drainage established before 1950 acres served 1960	16,825	287,060	185,344	60,160	80,859	1,500	138,583	262,690	2,743
10	Area added, 1950-1959 acres served 1960			3,832	1,100	1,320				
11	Area served by two or more projects acres served 1980		1,979		3,030					
	PROJECTS, 1960, BY TYPE OF ORGANIZATION									
12	Drains owned by one landowner number of projects				1					
13	acres served ²				1,100					
14	Cooperative or mutual drainsnumber of projects		3	1	4					
15	acres served 2		1,979	600	3,030					
16	Legally organized public drains number of projects	1	1	1	1	1	1	1	1	1
17	acres served ²	16,825	287,060	188,576	60,160	82,179	1,500	138,583	262,690	2,743
	PROJECTS, 1960, BY YEAR STARTED									
18	1950-1959 number of projects		1	1	5					
19	acres served ³		578	600	4,130					
20	Prior to 1950number of projects	1	3	1	1	1	1	1	1	1
21	acres served ² .,	16,825	288,461	188,576	60,160	82,179	1,500	138,583	262,690	2,743
	DRAINAGE OPERATIONS, 1950-1959 8									
	Cost of drainage works and services		2	2	6	1		1	1	
23	dollars		530,031	98,964	36,670	21,505		106,509	233,370	•••
24	New drainage works constructed, enlarged, or installedprojects reporting			(4)	5					
25	dollars			(4)	15,170					
26	Open ditchesprojects reporting			(4)	5					
27	length, miles			(4)	4.7					
28	Tile or covered drainsprojects reporting									
29	length, miles									
30	Levees or dikesprojects reporting									
31	length, miles								:	
32	Pumpsprojects reporting									
33	number of pumps.,,									
34	Other (see text)		• • •		1					
35	Cost of maintenance, operation, repair, and administrationprojects reporting		2	(4)	1	1		1	1	
36	dollars		530,031	(4)	21,500	21,505		106,509	233,370	
- 1									1	

lland served by two or more projects counted only once.

Acres served by two projects are included for each project. See text,

Includes projects taken over by another project prior to 1960. See text.

Included in State total only.

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County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

Item and Census year	Pickaway	Portage	Preble	Putnam	Richland	Rons	Sandusky	Seneca	Shelby
AREA									
Approximate land erea	324,480	322,560	273,280	311,040	318,080	439,680	262,400	352,640	261,76
Land in farms	306,774	162,106	239,417	294,286	215,858	324,268	233,981	324,987	233,61
Drainage projectsnumber 1860	5	1	3	1	1	5	1	1	
1050	1	1	1	1	1	1	1	1	
Total area in drainage projects	50,146	21,646	216,384	311,040	57,614	3,033	243,776	207,104	207,85
1950	44,646	21,146	216,384	386,753	45,820	583	243,776	207,104	207,87
Area not used for agriculture or not drained acres served 1960		600	720		500		720	•	
Net area drained and used for agriculture acres served 1980	50,146	21,046	215,664	311,040	57,114	3,033	243,056	207,104	207,8
Drainage established before 1950 acres served 1960	44,646	21,046	215,664	311,040	45,320	583	243,056	207,104	207,87
Area added, 1950-1959 acres served 1960	5,500				11,794	2,450			
Area served by two or more projects acres served 1980			2,732						8,49
PROJECTS, 1980, BY TYPE OF ORGANIZATION							i		
Drains owned by one landowner number of projects									
acres served									
Cooperative or mutual drainsnumber of projects	4		2			4			
acres served	7,000		2,732			2,450			8,49
Legally organized public drainsnumber of projects	1	1	1	1	1	1	1	1	
acree served ²	43,146	21,046	215,664	311,040	57,114	583	243,056	207,104	207,87
PROJECTS, 1980, BY YEAR STARTED									
1950-1959 number of projects	4		2			4			
acres served ²	7,000		2,732			2,450			8,49
Prior to 1950number of projects	1	1	1	1	1	1	1	1	
acres served ²	43,146	21,046	215,664	311,040	57,114	583	243,056	207,104	207,87
DRAINAGE OPERATIONS, 1950-1959 ³									
Cost of drainage works and services projects reporting	4	1	3	1	1	4	1	1	
dollars	12,940	32,000	14,403	297,881	52,787	8,010	326,179	374,657	246,05
New drainage works constructed, enlarged, or installed	4		2			4			
dollars	12,940		5,291			8,010			27,79
Open ditchesprojects reporting	3		2			4			
length, miles	1.6		2.3			5.2			0.
Tile or covered drainsprojects reporting	2								
length, miles	0.7								2.
Levees or dikesprojects reporting									
length, miles									
Pumpeprojects reporting									
number of pumpe									
Other (see text)projects reporting						1			
Cost of maintenance, operation, repair, and			3	1	1			1	
administrationprojects reporting dollars		32,000	9,112	297,881	52,787		326,179	374,657	218,26
oonars	l	52,000	>,112	277,001	26,787		520,179	2,4,037	210,20

Liand served by two or more projects counted only once.

Acres served by two projects are included for each project. See text.

Includes projects taken over by another project prior to 1960. See text.

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

	Itom and Census year	Stark	Summit	Trumbull	Union	Van Wert	Warren	Wayne	Williams	Wood	Wyandot
f	AREA										
1	pproximate land greaacres 1960	366,720	264,320	396,800	277,760	261,760	261,120	352,640	269,440	395,520	259,840
2	and in farmsscree 1959	204,003	50,149	182,776	252,079	250,238	188,023	298,938	242,814	339,989	239,65
3 1	Frainage projectsnumber 1960	1	1	1	3	1	4	1	1	1	1
4	1950	1	1	1	1	1	1	1	1	1	1
5	otal area in drainage projectsscree served 1960	14,224	21,990	18,918	277,100	257,610	11,896	58,016	245,696	385,739	143,32
6	1950	14,384	21,310	18,918	277,100	257,610	10,196	58,016	245,696	385,739	139,307
7	Area not used for agriculture or not drained, acres served 1980		4,640							2,560	
6	Not area drained and used for agriculture acres served 1960	14,224	17,350	18,918	277,100	257,610	11,896	58,016	245,696	383,179	143,327
9	Drainage established before 1950 acres served 1960	14,224	16,670	18,918	277,100	257,610	10,696	58,016	245,696	383,179	139,307
LO	Area added, 1950-1959 scree nerved 1960		680				1,200				4,020
11	Area served by two or more projects acres served 1960				2,494						
	PROJECTS, 1960, BY TYPE OF ORGANIZATION										
12 1	rains owned by one landowner number of projects						1				
18	acres served ²						500				
4	coperative or mutual drainsnumber of projects				2		2				
15	actes served ²				2,494		1,200				
10 1	egally organized public drainenumber of projects	1	1	1	1	1	1	1	1	1	3
17	acree served ²	14,224	17,350	18,918	277,100	257,610	10,196	58,016	245,696	383,179	143,327
	PROJECTS, 1960, BY YEAR STARTED										
18	950-1959number of projects	• • • •			2		2				
19	acres served				2,494		1,200				
20 1	vior to 1950number of projects	1	1	1	1	1	2	1	1	1	1
21	acres served ²	14,224	17,350	18,918	277,100	257,610	10,696	58,016	245,696	383,179	143,327
	DRAINAGE OPERATIONS, 1950-1959 ⁸	i									
22	cost of drainage works and servicesprojects reporting		1		3	1	3	1	1	1	1
23	dollare	•••	10,046		123,609	376,774	97,500	41,056	168,485	518,495	110,752
24 1	ew drainage works constructed, enlarged, or installed				2		3				
25	erallob				3,079		56,500				
26	Open ditchesprojects reporting				2		3				
27	length, miles				1.7		3.7				
28	Tile or covered drains				1		3				
29	length, miles				0.1		43.4				
30	Levees or dikes										
31	length, miles										
32	Pumpsprojects reporting										
88	number of pumps										
B4	Other (see text)projects reporting				1						
B 5	Cost of maintenance, operation, repair, and administration		1		1	1	2	1	1	1	1
- [dollars		10,046		120,530	376,774	41,000	41,056	168,485	518,495	110,752

Iland served by two or more projects counted only once.

Agrees served by two projects are included for each project. See text.

Includes projects taken over by another project prior to 1960. See text.

State Table 1.-DRAINAGE PROJECTS-NUMBER, AREA, COST, AND WORKS, 1920 TO 1960

[See text for comparability of data]

[See text for computability of data]												
Leep	1960 Census	1950 Census	1940 Census	1930 Census	1920 Censua							
AREA												
Approximate land areanecres	44,087,680	44,179,840	44,341,120	44,424,960	44,424,96							
and is farms	35,800,688	36,006,603	34,803,317	33,790,817	31,951,93							
krainage projectsnumber	31	18	129	NA.								
Otal area in drainage projects	133,796	300,884	197,646	170,158	12,15							
Area not used for agriculture or not drained	25,770	NA NA	NA NA	NA NA								
Net area drained and used for agriculture	133,796	NA.	²182,980	²163,936								
Prainage established 10 years or more before Census date	115,212	NA.	102,900 NA	NA NA								
	18,584	NA.	NA.	NA.								
Draunage established within 10 years of Census date		NA NA		960								
Area served by two or more projects	***	NA.	•••	960								
PROJECTS BY TYPE OF ORGANIZATION												
rains owned by one landownernumber of projects	11	(3)		, NA								
acres served ⁸ '	9,942	(3)		4,110	1							
coperative or mutual drainsnumber of projects	10	(3)										
acres served 5	9,656	(3)										
egally organized public drainsnumber of projects	10	314	NA.	NA NA								
acres served ³	114,198	³ 298,853	197,646	166,048								
PROJECTS BY YEAR STARTED												
tarted 10 years or more before Census date	11	NA.	NA.	NA NA								
acres served	114,698	NA.	172,326	99,308								
tarted within 10 years of Census date	20	NA	NA.	NA.								
acres served	19,098	NA	25,320	70,850	1							
OPERATIONS, 10-YEAR PERIOD PRECEDING CENSUS DATE												
	24	10	NA.	NA.								
Cost of drainage works and services	249,053	299,114	NA NA	NA.								
	249,053	299,114	NA NA	NA NA								
iew drainage works constructed, enlarged, or installed		462,027	NA.	NA.								
cost, dollars	241,561		NA NA	NA.								
Open ditchesprojects reporting	22	1										
length, miles	172.5	16	NA.	NA								
Tile or covered drains			NA.	NA NA								
tength, miles	•••	•••	NA.	NA								
Levese or dikes	31	•••	NA.	NA.								
length, miles	2.2		NA.	NA.								
Pumps projects reporting	•••	NA.	NA.	NA.								
number of pumpa	***	NA.	NA	. NA								
Other (see text) projects reporting	***	NA.	NA.	NA NA								
Cost of maintenance, operation, repair, and administration	7	10	NA.	NA NA								
dollars	7,492	237,087	NA.	NA NA								
CTRACTIC COLOTENIA DATE												
STATUS ON CENSUS DATE	NA.	NA.	1,971,350	2,283,598	76,4							
Capital investmentdollars	N.A.	iu.	1,,,1,,,,,	_,,	,.							
Physical works: Open ditcheslength, milen	NA	NA.	334.3	303.0	18							
Tils drainslength, miles	na.	NA.										
Levees and dikeslength, miles	NA.	NA.			5							
Pumping unitsnumber of cants	NA.	NA.										

NA Not available.

In 1940, each county drain was counted as a separate project. See text.

All projects for 1950 included with county drains, except 4 counties and 2,031 acres from Census of Irrigation. See text.

Cost of new works for lands not previously drained.

State Table 2.-DRAINAGE

			ed and used lture, 1960	Area by period drainage was established				
Size of project (Based on area of agricultural land in project)	Number of projects		Served by two	Befor	e 1950	Area added	1950-1959	
		Total (acres)	or more projects (acres)	Projects reporting	Acres	Projects reporting	Acres	
All projects.	31	133,796		12	115,212	19	18,58	
500 to 999 acres	15	9,296		2	1,014	13	8,28	
1,000 to 1,999 acres	6	9,592		1	1,790	5	7,8	
2,000 to 4,999 acres	3	10,924		2	8,424	1	2,5	
5,000 to 9,999 acres	2	12,176		2	12,176			
10,000 to 19,999 acres	3	42,656		3	42,656			
20,000 to 49,999 acres	2	49,152		2	49,152			
50,000 to 99,999 acres								
100,000 or more acres								

State Table 3.-DRAINAGE PROJECTS, 1960,

		Area drained for agricul		Area	by period drains	ge was establishe	d	
Type of organization	Number of projects	Total	Served by two	Before	1950	Area added 1950-1959		
		(acres)	or more projects (acres)	Projects reporting	Acres	Projects reporting	Acres	
All projects.	31	133,796		12	115,212	19	18,58	
Drains owned by one landowner	11	9,942		2	1,014	9	8,92	
Cooperative or mutual drains	10	9,656				10	9,65	
Legally organized public drains	10	114,198		10	114,198			

State Table 4.-DRAINAGE PROJECTS, 1960,

		Area draine for agricul		Area by period drainage was established					
Year of organization	Number of projects		Served by two	Befor	e 1950	Area added	1950-1959		
	projects	Total (acres)	or more projects (acres)	Projects reporting	Acres	Projects reporting	Acres		
All projects	31	133,796		12	115,212	19	18,58		
1950-1959	20	19,098		1	514	19	18,58		
Prior to 1950.	11	114,698		11	114,698				

PROJECTS, 1960, BY SIZE

			in collect, 199	marged, or i	constructed, e	New WOLKS						Cost of d
Other,	ря	Frum	nd dikes	Levees a	ered drains	Tile or cov	itches	Open d	works	For new	tal	To
projects reporting	Number	Frojects reporting	Length (miles)	Projects reporting	Length (miles)	Frojects reporting	Length (miles)	Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting
			2.2	3			172.5	22	241,561	22	249,053	24
			0.3	1			74.2	15	76,731	15	79,331	15
			1.9	2			59.3	5	109,376	5	110,876	5
							32.0	1	43,654	1	44,754	2
							7.0	1	11,800	1	14,092	2

BY TYPE OF ORGANIZATION

Cost of d	rsinage works	and services,	1950-1959			New works	constructed, e	nlarged, or 1	installed, 195	50-1959		
To	tal	For new	works	Open ditches		Tile or cove	red drains	Levees and dikes		Pumps		Other,
rojects eporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number	projects reporting
24	249,053	22	241,561	22	172.5			3	2.2			
11	98,276	11	96,576	11	124.6			2	2.1			
10	135,585	10	133,185	10	40.9			1	0.1			
3	15,192	1	11,800	1	7.0							

BY YEAR OF ORGANIZATION

Cost of d	drainage works	end services,	1950-1959			New works	constructed, en	nlarged, or i	nstalled, 195	0-1959			
To	otal	For new	w works	Open ditches		Tile or covered drains		Levees and dikes		Fumps		Other,	
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Frojects reporting	Length (miles)	Frojects reporting	Number	projects reporting	
24	249,053	22	241,561	22	172.5			3	2.2				
20	233,361	20	229,261	20	164.8			3	2,2				
4	15,692	2	12,300	2	7.7								

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

	Item and Census year	The State	Bryan	Cenadian	Choctsw	Cleveland	Garfield	Garvin	Kay	Le Flore	McClain
	AREA										
1	Approximate land areaacres 1960	44,087,680	570,240	566,400	494,080	350,080	¹ 674,560	520,320	604,160	1,004,160	357,760
2	Land in farmsacres 1959	35,800,688	443,290	547,719	330,144	257,905	1687,747	415,649	556,930	440,356	310,410
а	Drainage projectsnumber 1960	31	1	1	4	2	1	1	3	3	1
4	1950	18		1		1	1	1	1		1
5	Total area in drainage projects ²	133,796	1,792	5,376	2,478	12,716	700	17,536	15,188	4,850	26,624
В	1950	300,884		5,376		12,032	1	17,536	17,408		26,624
7	Area not used for agriculture or not drained acres served 1980										
9	Net area drained and used for agriculture acres served 1980	133,796	1,792	5,376	2,478	12,716	700	17,536	15,188	4,850	26,624
9	Drainage established before 1950 acres served 1960	115,212		5,376		12,032		17,536	13,088	•	26,624
10	Area added, 1950-1959 acree served 1960	18,584	1,792		2,478	684	700		2,100	4,850	
11	Area served by two or more projects acres served 1980									•••	
	PROJECTS, 1980, BY TYPE OF ORGANIZATION										
12	Drains owned by one landowner number of projects	11			4		1			3	
19	acres served 5	9,942			2,478		700			4,850	
14	Cooperative or mutual drainsnumber of projects	10	1			1			2		
15	acres served ³	9,656	1,792			684			2,100		
16	Legally organized public drains number of projects	10		1		1		1	1		1
17	acres served ³	114,198		5,376		12,032		17,536	13,088		26,624
	PROJECTS, 1960, BY YEAR STARTED										
18	1950-1959number of projects	20	1		4	1	1		2	3	
19	acres served ⁸	19,098	1,792		2,478	684	700		2,100	4,850	
20	Prior to 1950number of projects	11		1		1		1	1		1
21	acres served ⁸	114,698		5,376		12,032		17,536	13,088		26,624
	DRAINAGE OPERATIONS, 1950-1959										
22	Cost of drainage works and servicesprojects reporting	24	(5)	1	4	(5)	(5)		2	3	
23	dollars	249,053	(5)	140	29,822	(5)	(5)		6,174	118,916	
24	New drainage works constructed, enlarged, or installedprojects reporting	22	(5)		4	(5)	(5)		2	3	
25	dollars	241,561	(5)		28,122	(5)	(5)		6,174	118,916	
28	Open ditchesprojects reporting	22	(5)		4	(5)	(5)		2	3	
27	length, miles	172.5	(5)		28.5	(5)	(5)		4.4	75.3	
28	Tile or covered drainsprojects reporting										
29	length, miles										
30	Levees or dikesprojects reporting	3							1	1	
31	length, miles	2.2							0.1	1.8	
32	Pumpeprojects reporting										
93	number of pumps										
34	Other (see text)projects reporting										
35	Cost of maintenance, operation, repair, and administration	7	(5)	1	2	(5)					
36	dollars	7,492	(5)	140	1,700	(5)					
		L		1	1					1	

The excess of farm acreage over approximate land area is due to the fact that the entire acreage of a farm is tabulated as in the county in which the headquarters is located, even though a part of the farm may be situated in an adjoining county.

"Isand served by two or more projects counted only once."

"Jacras served by two projects are included for each project. See text.

"Included projects taken over by another project prior to 1960. See text.

"Included in State total only."

County Table 1. - DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

〒												
	Item and Consus year	McIntosh	Muskogee	Oklahoma	Pottawat- omie	Rogers	Sequoyah	Tillman	Tulsa	Wagoner	All other counties1	
ſ	AREA											
1 A	Approximate land areaacres 1960	457,600	524,800	451,200	510,080	456,320	446,080	2551,040	366,080	360,320	3,626,880	
2 1	and in farms	320,448	375,890	276,230	378,022	352,376	268,376	2552,302	357,332	285,612	3,309,813	
3 E	Orannage projectsnumber 1960	1	1	1	1	1	5	1	1	3		
4	1950		1	1	1			1	1	1		
6 T	Total area in drainage projects 3	1,790	583	22,528	3,560	800	4,497	4,864	100	7,814		
6	1950		15,872	22,528	53,474			4,864	10,752	55,552	58,865	
7	Area not used for agriculture or not drained acres served 1960						•••					
8	Net area drained and used for agriculture acres served 1960	1,790	583	22,528	3,560	800	4,497	4,864	100	7,814		
9	Drainage established before 1950 acres served 1960	1,790		22,528	3,560			4,864		7,814		
0	Area added, 1950-1959 acres served 1960		583			800	4,497		100			
1	Area served by two or more projects acres served 1960	• • • •										
	PROJECTS, 1960, BY TYPE OF ORGANIZATION		ı									
2 D	Prains owned by one landowner					1			1	2		
3	acres served					800			100	1,014		
4 C	Cooperative or mutual drainsnumber of projects		1				5					
5	acres served ⁴		583				4,497					
6 L	egally organized public drainsnumber of projects	1		1	1			1		1		
7	acres served 4	1,790		22,528	3,560			4,864		6,800		
İ	PROJECTS, 1960, BY YEAR STARTED											
6 1	950-1959 number of projects		1			1	5		1	1		
9	acres served		583			800	4,497		100	514		
0 P	Prior to 1950number of projects	1		1	1			1		2		
1	acres served 4.,	1,790		22,528	3,560			4,864		7,300		
-	DRAINAGE OPERATIONS, 1950-1959 ⁶											
2 C	Cost of drainage works and services projects reporting		(6)			(6)	5	1	(6)	3		
3	dollars		(6)			(6)	16,203	1,100	(6)	20,028		
4 N	lew drainage works constructed, enlarged, or installedprojects reporting		(6)			(6)	5		(6)	3		
5	dottars		(6)			(6)	16,203		(6)	17,876		
-	Open ditches		(6)			(6)	16,203		(6)	3		
7	length, miles		(6)			(6)	10.5		(6)	11.9		
1	Tile or covered drainsprojects reporting						10.5			11.7		
9	iength, miles											
	Levees or dikes projects reporting					(6)						
1	longth, miles					(6)						
1	Pumpe											
3	number of pumps											
	Other (see text)											
	Cost of maintenance, operation, repair, and											
	administrationprojects reporting							1		1		
6	dollars	•						1,100		2,152		

lincludes Alfalfa, Caddo, Jackson, Kingflaher, Lincoln, and Stephens counties.

The excess of farm screage over approximate land area is due to the fact that the entire acreage of a farm is tabulated as in the county in which the headquarters is located, even though a part of the farm may be situated in an adjoining county.

Jand served by two or more projects counted only once.

Acres served by two projects are included for each project. See text.

Includes projects taken over by another project prior to 1960. See text.

*Included in State total only.

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State Table 1. –DRAINAGE PROJECTS–NUMBER, AREA, COST, AND WORKS, 1920 TO 1960

[See text for comparability of data]

j.ee	text for comparability of d	ata j			
Item	1960 Census	1950 Census	1940 Census	1930 Census	1920 Census
AREA					00120
Approximate land area	61,598,720	61,641,600	61,664,000	61,188,480	61,188,48
Land in farms	21,236,298	20,327,683	17,988,307	16,548,678	13,542,31
Drainage projects	110	1,087	63	NA NA	N.
Total area in drainage projects	274,754	418,858			
Area not used for agriculture or not drained	4,300	, 410,030 NA	348,825 NA	211,182 NA	4,00 N
Net area drained and used for agriculture	270,454	NA.	1302,870	1146,576	N.
Drainage established 10 years or more before Census date	190,869	NA.	NA NA	NA NA	N.
Drainage established within 10 years of Census date	79,585	NA.	NA NA	NA.	N.
	41,927		5,090		
Area served by two or more projectsacres served	41,721	•••	3,000		
PROJECTS BY TYPE OF ORGANIZATION					
Prains owned by one landownernumber of projects	6	22	NA.	NA.	N
acres served	25,690	² 700	(2)	²4,500	N.
Cooperative or mutual drainsnumber of projects	56	29	•••		
acres served	87,807	² 16,507			
egally organized public drains	48	244	NA.	NA NA	N.
acres served	200,724	²161,286	²139,580	2121,778	N
PROJECTS BY YEAR STARTED					
Started 10 years or more before Census date	59	244	NA.	NA.	No.
acros served	217,629	² 158,227	272,282	123,501	N.
started within 10 years of Census date	51	211	NA	NA NA	N.
	96,592	² 20,266	76,543	87,681	N.
acres served	96,592	20,200	76,243	87,661	
OPERATIONS, 10-YEAR PERIOD PRECEDING CENSUS DATE					
Cost of drainage works and services	98	² 50	NA.	NA.	N.
dotlars	5,002,268	2,175,816	NA.	NA.	NJ.
New drainage works constructed, enlarged, or installedprojects reporting	75	317	NA NA	NA.	N.
cost, dellars	2,308,055	3476,561	NA.	NA.	NJ.
Open ditchesprojects reporting	66	17	NA.	NA.	N
length, miles	260.3	90	NA.	NA.	N/
Tile or covered drains	6	2	NA.	NA.	Nu Nu
length, miles	20.4	2	NA.	NA.	N.
Levees or dikes projects reporting	9	2	NA	NA.	NJ.
length, miles	43.7	4	NA.	NA.	NJ.
Pumpsprojects reporting	9	NA.	NA.	NA.	N/
number of pumps	16	NA	NA.	NA.	N/
Other (see text)	7	NA.	NA	NA.	N/
Cost of maintenance, operation, repair, and administration	44	NA.	NA.	NA.	N/
dollars	2,694,213	1,699,255	NA.	NA.	N
STATUS ON CENSUS DATE					
Capital investment	NA.	NA.	5,482,012	4,165,549	200,00
Physical works: Open ditches. length, miles	NA :	NA (780.1	495.1	
Tile drains length, miles	NA.	NA	150.6	42.5	13.
Levees and dikes. length, miles .	NA.	NA .	143.2	121.4	
Pumping unitsnumber of units	NA.	270	56	31	
t unipung units	166	,,,			

NA Not available. See text.

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State Table 2.-DRAINAGE

			ed and used lture, 1960	Area by period drainage was established					
Size of project (Based on area of agricultural land in project)	Number of projects	Total	Served by two	Befo	re 1950	Area added	1950-1959		
		(acres)	or more projects (acres)	Projects reporting	Acres	Projects reporting	Acres		
All projects.	110	314,221	85,694	64	231,851	51	82,370		
500 to 999 acres	46	32,402	3,644	20	14,049	26	18,35		
1,000 to 1,999 acres	28	37,328	3,486	21	28,315	9	9,01		
2,000 to 4,999 acres	21	65,573	7,137	10	36,042	12	29,53		
5,000 to 9,999 acres	7	44,865	9,572	6	33,392	3	11,47		
10,000 to 19,999 acres	6	78,213	12,975	5	64,213	1	14,000		
20,000 to 49,999 acres	2	55,840	48,880	2	55,840				
50,000 to 99,999 acres									
100,000 or more acres									

¹Includes projects taken over by another project prior to 1960. See text.

State Table 3.-DRAINAGE PROJECTS, 1960,

		Area draine for agricul		Area by period drainage was established				
Type of organization	Number of projects	Total	Served by two or more projects (acres)	Before 1950		Area added 1950-1959		
		(acres)		Projects reporting	Acres	Projects reporting	Acres	
All projects	110	314,221	85,694	64	231,851	51	82,370	
Drains owned by one landowner	6	25,690		4	24,600	2	1,09	
Cooperative or mutual drains	56	87,807	15,715	15	25,007	45	62,80	
Legally organized public drains	48	200,724	69,979	45	182,244	4	18,48	

State Table 4.-DRAINAGE PROJECTS, 1960,

		Area draine for agricul		Area by period drainage was established				
Year of organization	Number of projects		Served by two	Before 1950		Area added 1950-1959		
	projects	Total (acres)	projects (acres)	Projects reporting	Acres	Projects reporting	Acres	
All projects	110	314,221	85,694	64	231,851	51	82,37	
1950-1959	51	96,592	20,912	5	15,982	48	80,610	
Prior to 1950	59	217,629	64,782	59	23.5,869	3	1,76	

¹Includes projects taken over by another project prior to 1960. See text.

PROJECTS, 1960, BY SIZE

		and services,					constructed, e					
To	tal .	For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		other,
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Frojects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number	projects reporting
98	5,002,268	75	2,308,055	66	260,3	6	20.4	9	43.7	9	16	
38	337,786	30	262,740	27	49.6	4	15.4	2	5.5	1	1	
24	763,352	15	337,866	11	39.1			3	2.2	1	2	
122	763, 303	19	486,831	18	75.6			2	17.0	3	5	
7	2,057,129	6	1,046,210	6	39.0	2	5.0	1	1.0	2	5	
5	618,198	4	54,408	3	37.0			1	18.0	2	3	
2	462,500	1	120,000	1	20.0							

BY TYPE OF ORGANIZATION

Cost of d	rainage works	and services,	1950-1959			New works	constructed, e	nlarged, or i	nstalled, 195	0-1959		
To	tal	For new	works	Open d	itches	Tile or cove	red drains	Levees a	nd dikes	Pump	s	Other,
rojects reporting	Dollars	Projects reporting	Dollars	Frojects reporting	Length (miles)	Frojects reporting	Length (miles)	Projects reporting	Length (miles)	Frojects reporting	Number	projects reporting
98	5,002,268	75	2,308,055	66	260.3	6	20.4	9	43.7	9	16	7
6	92,755	5	16,255	4	11.5	1	10.3	1	0.7	1	1	
52	637,974	51	589,124	49	143.4	3	5.1	2	2.5	1	1	2
40	4,271,539	19	1,702,676	13	105.4	2	5.0	6	40.5	7	14	

BY YEAR OF ORGANIZATION

Cost of d	irainage works	and services,	1950-1959		New works constructed				enlarged, or installed, 1950-1959				
To	otal	For ne	works	Open di	i tches	Tile or cove	ered drains	Levees a	nd dikes	Pur	nps	Other,	
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number	projects reporting	
98	5,002,268	75	2,308,055	66	260.3	6	20.4	9	43.7	9	16	7	
152	386,435	52	344,709	50	158.2	4	15.4					2	
46	4,615,833	23	1,963,346	16	102.1	2	5.0	9	43.7	9	16	5	

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959 [See text for comparability of 1960 and 1950 data]

_		[See text to	r comparability of 1960 and	reso caraj			
	Item and Census year	The State	Benton	Clackamas	Clatsop	Columbia	Соов
	AREA						
1	Approximate land areaacres 1980	61,598,720	427,520	1,207,680	524,800	413,440	1,031,040
2	Land in farmsacres 1959	21,236,298	205,340	319,048	55,082	104,090	254,460
3	Drainage projectsnumber 1960	110	7	1	6	11	
4	1950	1,087	11	91	9	75	73
5	Total area in drainage projects 1	274,754	8,487	1,156	7,347	22,829	7,104
в	1950	418,858	108	1,288	5,933	26,192	6,77
7	Area not used for agriculture or not drained acres served 1960	4,300					
6	Net area drained and used for agriculture acres served 1960	270,454	8,487	1,156	7,347	22,829	7,10
9	Drainage established before 1950 acres served 1960	190,869		1,156	7,347	22,349	7,10
10	Area added, 1950-1959 acres served 1960	79,585	8,487			480	
11	Area served by two or more projectsacres served 1960	41,927	778				•••
	PROJECTS, 1960, BY TYPE OF ORGANIZATION						
12	Drains owned by one landowner number of projects	6					
13	acres served ²	25,690					
14	Cooperative or mutual drainsnumber of projects	56	7				1
15	acres served ²	87,807	9,265				1,300
16	Legally organized public drainsnumber of projects	48		1	6	11	
17	астез served ²	200,724		1,156	7,347	22,829	5,804
	PROJECTS, 1960, BY YEAR STARTED						
18	1950-1959	51	7				
19	acres served ²	96,592	9,265				
20	Prior to 1950number of projects	59		1	6	11	,
21	acres served ²	217,629		1,156	7,347	22,829	7,10
	DRAINAGE OPERATIONS, 1950-1959 ^a						
22	Cost of drainage works and servicesprojects reporting	98	7	1	4	11	3
23	dollars	5,002,268	48,467	2,515	33,774	930,567	168,000
24	New drainage works constructed, enlarged, or installed	75	7			3	:
25	dollars	2,308,055	48,467			97,343	80,000
26	Open ditchesprojects reporting	66	6			1	1
27	length, miles	260.3	12.9			0.6	5.0
28	Tile or covered drainsprojects reporting	6	1				
29	length, miles	20.4	2.9				
30	Levees or dikes	9					1
31	length, miles	43.7					2.0
82	Pumpeprojects reporting	9				2	
88	number of pumps	16				2	:
34	Other (see text)	7				2	1
35	Cost of maintenance, operation, repair, and administrationprojects reporting	44		1	4	11	2
36	dollars	2,694,213		2,515	33,774	833,224	88,000
00	tonias	2,000,20		2,515]	033,224	

¹Land aerved by two or more projects counted only once.

²Acres served by two projects are included for each project. See text.

³Includes projects taken over by enother project prior to 1960. See text.

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County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1960 data]

=								
	Item and Census year	Klamath	Lake	Lane	Lincoln	Linn	Malheur	Marion
	AREA							
1	Approximate land areaacres 1960	3,822,080	5,292,160	2,918,400	630,400	1,464,320	6,316,800	750,720
2	Land in farmsacree 1959	1,172,577	1,057,780	365,310	77,707	490,060	1,523,214	351,397
3	Drainage projectsnumber 1960	11	2	17	1	17	1	10
4	1950	71	8	36	3	33	53	226
6	Total area in drainage projects	67,510	15,500	28,555	979	43,180	5,449	20,432
6	1950	187,450	19,477	12,311	997	13,673	78,018	4,178
7	Area not used for agriculture or not drained acres served 1960	600		1,000				
8	Net area drained and used for agriculture acros served 1960	66,910	15,500	27,555	979	43,180	5,449	20,432
9	Drainage established before 1950 acres served 1960	66,910	15,000	17,047	979	13,642	5,449	
10	Area added, 1950-1959 acree served 1960		500	10,508		29,538		20,432
11	Area served by two or more projects acres served 1960	24,440		10,572		6,137		
	PROJECTS, 1960, BY TYPE OF ORGANIZATION							
12	Drains owned by one landowner number of projects	3	1	1				1
13	acres served ²	9,600	15,000	550				540
14	Cooperative or mutual drains number of projects	3	1	14		16		7
15	acres served ²	4,500	500	20,413		36,317		4,892
16	Legally organized public drainsnumber of projects	5		2	1	1	1	2
17	acres served ²	77,250	•••	19,004	979	13,000	5,449	15,000
	PROJECTS, 1960, BY YEAR STARTED							
18	1950-1959 number of projects		1	13		15		10
19	scres served ²		500	22,360		35,675		20,432
20	Prior to 1950number of projects	11	1	4	1	2	1	
21	acres served ²	91,350	15,000	17,607	979	13,642	5,449	
	DRAINAGE OPERATIONS, 1950-1959							
22	Cost of drainage works and servicesprojects reporting	10	(4)	15		15	1	10
23	dollars	604,095	(4)	336,134		101,019	50,000	88,367
24	New drainage works constructed, enlarged, or installed	9	(4)	15		15	1	10
25	dollars	199,595	(4)	314,656		101,019	30,000	48,367
26	Open ditchesprojects reporting	8	(4)	15		15	1	9
27	length, miles	56.5	(4)	40.4		52.5	5.0	37.9
28	Tile or covered drainsprojects reporting		(4)				1	2
29	length, miles		(4)				3.0	10.7
30	Levees or dikes	4						
31	length, miles	34.2						
32	Pumpsprojects reporting	2	•••				1	
88	number of pumps	3					1	
34	Other (see text)	•••	(4)					1
85	Cost of maintenance, operation, repair, and administrationprojects reporting	7	(4)	2			1	1
86	dollars	404,500	(4)	21,478			20,000	40,000

land served by two or more projects counted only once.

Lones served by two projects are included for each project. See text.

Includes projects taken over by another project prior to 1960. See text.

Included in State total only.

County Table 1. - DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

L	Item and Census year	Multnomah	Polk	Tillamook	Union	Washington	Yemhill	All other counties1
	AREA							
1 A	approximate land areascres 1960	271,360	472,960	713,600	1,300,480	458,240	453,760	29,888,000
2 L	and in farmsacres 1959	89,379	232,683	68,467	527,355	211,108	260,673	12,218,531
3 D	Prainage projectsnumber 1960	5	4	8	3	2	2	
4	1950	22	20	29	11	100	50	173
5 T	Total area in drainage projects ² acres served 1960	22,851	6,560	6,555	5,560	3,650	1,050	
6	1950	23,638	450	5,927	4,253	6,210	1,491	20,491
7	Area not used for agriculture or not drained acres served 1960	2,700						
8	Net area drained and used for agriculture acres served 1960	20,151	6,560	6,555	5,560	3,650	1,050	
9	Drainage established before 1950 acres served 1960	20,151		6,555	3,280	3,650	250	
0	Ares added, 1950-1959 acres served 1960		6,560		2,280		800	
1	Area served by two or more projects acres served 1980						•••	
	PROJECTS, 1960, BY TYPE OF ORGANIZATION							
2 D	rains owned by one landowner number of projects							
3	acres served ³							
4 C	Cooperative or mutual drainsnumber of projects		3		3	1	2	
5	acres served ³		3,560		5,560	450	1,050	
6 L	egally organized public drainsnumber of projects	5	1	8		1		
7	acres served ³	20,151	3,000	6,555		3,200		
	PROJECTS, 1960, BY YEAR STARTED							
8 19	950-1959 number of projects		4		1		1	
9	acres served ³		6,560	•••	1,000		800	
0 P	rior to 1950number of projects	5		8	2	2	1	
1	acres served ³	20,151		6,555	4,560	3,650	250	
	DRAINAGE OPERATIONS, 1850-1959 4							
2 C	Cost of drainage works and servicesprojects reporting	5	5	6	3	2	(5)	
3	dollars	2,272,704	78,683	149,942	52,582	25,000	(5)	
4 N	lew drainage works constructed, enlarged, or installed	3	5	1	3		(5)	
5	doliars	1,145,500	76,957	125,000	34,582		(5)	
6	Open ditchesprojects reporting	1	5		3		(5)	
7	length, miles	10.0	21.8		14.7		(5)	
8	Tile or covered drainsprojects reporting	1						
9	length, miles	2.0						
0	Levees or dikesprojects reporting	2		1	1			
1	length, miles	2.0		3.5	2.0			
2	Pumpsprojects reporting	1			1			
8	number of pumps	4	•••		1			
	Other (see text)projects reporting	2						
	cost of maintenance, operation, repair, and administration	5	1	6	2	2	(5)	
6	dollars	1,127,204	1,726	24,942	18,000	25,000	(5)	

Includes Baker, Crook, Curry, Douglas, Grant, Harney, Hood River, Jacksom, Jefferson, Josephine, Morrow, Umatilla, Wallowa, Wasco, and Wheeler counties.

Fland served by two or more projects counted only once.

Arces served by two projects are included for each project. See text.

Tincludes projects taken over by another project prior to 1960. See text.

Tincludes projects taken over by another project prior to 1960. See text.

State Table 1.-DRAINAGE PROJECTS-NUMBER, AREA, COST, AND WORKS, 1920 TO 1960

See text for comparability of data

	text for comparability of d	ntn			
ltem	1960 Consus	1950 Consuc	1940 Census	1930 Census	1920 Census
AREA					
Approximate land area	19,374,080	19,395,200	19,580,160	19,516,800	19,516,80
Land to farms	9,149,492	11,878,793	11,238,697	10,393,113	12,426,67
Drainage projects	123	45	24	NA.	12,420,07
Total area in drainage projects	339,966	249,011	204,366	208.249	140,03
Area not used for agriculture or not drained	1,900	NA.	NA.	NA.	, A-0,00
Net area drained and used for agriculture	338,066	NA.	1202,002	194,744	
Drainage established 10 years or more before Census date	229,279	NA.	NA NA	NA.	3
Drainage established within 10 years of Census dateacres served	108,787	NA.	NA.	NA NA	
Area served by two or more projects	15,850	8,000			
	,	,			
PROJECTS BY TYPE OF ORGANIZATION					
Prains owned by one landownernumber of projects	59	20	N.A	N.A.	
actes served,	88,203	52,477	21,940	15,092	25,20
Cooperative or mutual drains	52	11			
acros served	97,212	28,540			
egally organized public drainsnumber of projects	12	14	NA.	NA.	,
acres served	168,501	167,994	182,426	193,157	114,8
PROJECTS BY YEAR STARTED					
tarted 10 years or more before Ceasus date	41	19	NA.		
acres served	234,304	180,935		NA NA	
Started within 10 years of Census date	82	26	204,366	76,471	
acres served	119,612	68,076	***	NA	1
acres served	119,612	68,076	• • • • • • • • • • • • • • • • • • • •	131,778	140,0
OPERATIONS, 10-YEAR PERIOD PRECEDING CENSUS DATE					
Cost of drainage works and services projects reporting	95	33	NA.	NA.	1
dollara	824,238	319,486	NA NA	NA.	,
new drainage works constructed, enlarged, or installed	95	227	NA NA	NA.	2
cost, dollars	785,638	² 206,956	NA.	NA.	,
Open ditchesprojects reporting	93	28	NA	NA.	,
length, miles	551.2	128	NA.	N.A	
Tile or covered drains	10	3	NA.	NA.	,
length, nules	43.5	6	NA NA	NA.	,
Levees or dikes projects reporting	3	1	NA.	NA.	,
longth, mules	10.4	1	NA.	NA.	,
Pumps projects reporting	1	NA.	NA.	NA.	1
number of pumps	1	NA NA	NA.	NA NA	1
Other (see text) projects reporting		NA.	NA NA	NA.	1
Cost of maintenance, operation, repair, and administration	5	NA.	NA.	NA.	h
dollars	38,600	112,530	NA.	NA.	4
STATUS ON CENSUS DATE					
Apital investment	NA NA	NA.	1,241,300	1,265,276	582,18
Physical works: Open ditcheslength, miles	NA	N.A.	459.9	423.0	262.
Tile drains	NA NA	NA.		150.0	101.
Levees and dikes. tength, miles	NA.	NA NA		11.0	
Pumping units	NA NA				 N
- waying will all the state of wilds				***	15

NA Not available.

NA Not fully comparable. See text.

Cost of new works for lands not previously drained.

State Table 2.-DRAINAGE

			ed and used lture, 1960	Area by period drainage was established				
Size of project (Based on area of agricultural land in project)	Number of projects		Served by two	Befor	e 1950	Area added 1950-1959		
		Total (acres)	or more projects (acres)	Projects reporting	Acres	Projects reporting	Acres	
All projects.	123	353,916	31,700	44	229,279	88	124,63	
500 to 999 acres	69	44,128	850	19	11,783	56	32,34	
1,000 to 1,999 acres	30	35,548	1,000	9	10,424	21	25,12	
2,000 to 4,999 scres	10	30,685	7,000	5	15,618	7	15,06	
5,000 to 9,999 acres	6	47,249	7,000	4	26,988	3	20,26	
10,000 to 19,999 acres	4	51,682		4	51,682			
20,000 to 49,999 acres	4	144,624	15,350	3	112,784	1	31,84	
50,000 to 99,399 acres								
100,000 or more scres								

State Table 3.-DRAINAGE PROJECTS, 1960,

		Area drained and used for agriculture, 1960		Ares	Area by period drainage was established				
Type of organization	Number of projects	Total	Served by two	Before 1950		Area added 1950-1959			
	1 0	(acres)	projects (acres)	Projects reporting	Acres	Frojects reporting	Acres		
All projects.	123	353,916	31,700	dele	229,279	38	124,63		
Drains owned by one landowner.	59	88,203		24	53,868	43	34,33		
Cooperative or mutual drains	52	97,212	31,700	. 8	6,910	45	90,30		
Legally organized public drains	12	168,501		12	168,501				

State Table 4.-DRAINAGE PROJECTS, 1960,

		Area draine for agricul		Area by period drainage was established				
Year of organization	Number of projects		Served by two	Before 1950		Area added 1950-1959		
	projects	Total (acres)	or more projects (acres)	Frojects reporting	Acres	Projects reporting	Acres	
All projects	123	353,916	31,700	44	229,279	88	124,63	
1950-1959	82	119,612	31,700	3	1,800	81	117,81	
Prior to 1950.	41	23-,304		41	227,479	7	6,82	

PROJECTS, 1960, BY SIZE

							constructed, e					
Tot	al	For new	works	Open d	itches	Tile or cove	red drains	Levees a	nd dikes	Fum	рв	Other,
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Frojects reporting	Length (miles)	Projects reporting	Number	projects reporting
95	824,238	95	785,638	93	551.2	10	43.5	3	10.4	1	1	
59	329,794	59	302,194	58	280.0		1.6	2	8.4	1	1	
25	170,500	25	170,500	24	146.7	4	12.0	1	2.0			
7	130,718	7	128,718	7	70.0	2	20,2					
3	67,531	3	66,531	3	20.9	1	4.1					
1	125,695	1	117,695	1	33.6	1	5.6					

BY TYPE OF ORGANIZATION

Cost of d	rsinage works	and services,	1950-1959			New works	constructed, e	nlarged, or	installed, 19	50-1959			T
To	tal	For new	works	Open d	itches	Tile or cove	red drains	Levees a	and dikes	Funny	os.	Other,	Ť
Projects reporting	Dollars	Frojects reporting	Dollars	Projects reporting	Length (miles)	Frojects reporting	Length (miles)	Frojects reporting	Length (miles)	Projects reporting	Number	projects reporting	
95	824,238	95	785,638	93	551.2	10	43.5	3	10.4	1	1		
47	304,284	47	274,684	46	299.2	2	2.2	3	10.4	1	1		
48	519,954	48	510,954	47	252.0	8	41.3						ł
													ı

BY YEAR OF ORGANIZATION

drainage works	and services,	1950-1959			New works	constructed, e	nlarged, or i	nstalled, 195	0-1959		
otal	For ne	w works	Open d	itches	Tile or cove	ered drains	Levees a	nd dikes	Pur	mps	Other,
Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Frojects reporting	Length (miles)	Projects reporting	Number	projects reporting
824,238	95	785,638	93	551.2	10	43.5	3	10.4	1	1	
752,626	79	721,626	80	510.8	9	38.4	3	10.4	1	1	
71,612	16	64,012	13	40.4	1	5.1					
	Dollars 824,238 752,626	Pollars Projects reporting	Dollars	Stal For new works Open d Dollars Projects reporting Dollars Frojects reporting 824,238 95 785,638 93 752,626 79 721,626 80		For new works Open ditches Tile or cow		Dollars Frojects Projects		For new works	

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

Item and Census year	The State	Besufort	Berkeley	Calhoun	Charleston	Clarendon	Colleton	Darlington
AREA								
1 Approximate land area	19,374,080	376,320	704,000	241,280	604,800	382,720	670,720	348,800
2 Land in farmsacres 1959	9,149,492	105,230	160,735	162,943	116,385	232,705	326,447	254,113
3 Drainage projectsnumber 1960	123	2	2	2	10	5	1	7
4 1950	45	1	1			3	1	
5 Total area in drainage projects 1 acres served 1960	339,966	1,175	1,050	1,175	8,200	7,987	900	22,264
8 1950	249,011	200	8,700			6,765	5,589	18,549
7 Area not used for agriculture or not drained acres served 1960	1,900						·	·
8 Net area drained and used for agriculture acres served 1960	338,066	1,175	1,050	1,175	8,200	7,987	900	22,264
9 Drainage established before 1950 acres served 1960	229,279	350		·		6,765		18,549
Area added, 1950-1959	108,787	825	1,050	1,175	8,200	1,222	900	3,715
Area served by two or more projects acres served 1960	15,850							•••
PROJECTS, 1960, BY TYPE OF ORGANIZATION								
2 Drains owned by one landowner number of projects	59	2	1		9	1	1	,
acres served ²	88,203	1,175	500		7,650	680	900	1,145
14 Cooperative or mutual drains	52		1	2	1	, 1		4
acres served ² .	97,212		550	1,175	550	542		3,020
6 Legally organized public drains number of projects	12					3		2,020
acres served ²	168,501					6,765		18,099
PROJECTS, 1960, BY YEAR STARTED						,		
18 1950-1959	82	1					_	_
scres served ²			1	2	10	2	1	,
	119,612	650	550	1,175	8,200	1,222	900	4,165
Prior to 1950	41	525	500		•••	3		2
acres served	234,304	525	500			6,765		18,099
DRAINAGE OPERATIONS, 1950-1959 8								
Cost of drainage works and servicesprojects reporting	95	2	(4)	(4)	10	2	(4)	5
dollars	824,238	9,208	(4)	(4)	104,961	5,073	(4)	22,850
New drainage works constructed, enlarged, or installedprojects reporting	95	. 2	(4)	(4)	10	2	(4)	5
dollars	785,638	3,608	(4)	(4)	104,961	5,073	(4)	22,850
6 Open ditchesprojects reporting	93	2	(4)	(4)	9	2	(4)	5
tength, miles	551.2	5.9	(4)	(4)	171.0	3.7	(4)	12.7
Tile or covered drainsprojects reporting	10							1
length, miles	43.5							1.8
10 Levees or dikes	3				1			
length, miles	10.4				6.0			
Pumpeprojects reporting	1							
number of pumps	1							
Other (see text)projects reporting								
IS Cost of maintenance, operation, repair, and administration. projects reporting	5	1						
dollars	38,600	5,600						•••
	~,~~	2,000						•••

Land served by two or more projects counted only once.

*Acres served by two projects are included for each project. See text.

*Includes projects taken over by another project prior to 1960. See text.

*Included in State total only.

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

_				cy or 1000 and 1000					
	Item and Census year	Dillon	Dorchester	Florence	Georgetown	Hammaton	Horry	Jasper	Kerahaw
	AREA								
1	Approximate land areaacres 1960	260,480	364,160	515,200	520,320	359,680	737,280	423,680	503,040
2	Land in farms	189,432	128,167	354,668	89,465	199,067	361,341	113,682	205,548
3	Drainage projectsnumber 1960	5	7	9	2	17	18	4	. 2
4	1950	1	7	4		5	3	2	
6	Total area in drainage projects 1	18,373	5,209	35,873	3,800	16,800	41,609	31,000	1,500
6	1950	15,983	5,034	29,093		3,875	2,164	29,700	
7	Area not used for agriculture or not drained acres served 1980								
8	Not area drained and used for agriculture acres served 1980	18,373	5,209	35,873	3,800	16,800	41,609	31,000	1,500
9	Drainage established before 1950 acres served 1960	15,983	5,034	29,093		4,125	2,164	29,700	
10	Area added, 1950-1959 acres served 1960	2,390	175	6,780	3,800	12,675	39,445	1,300	1,500
11	Area served by two or more projects, acres served 1980						15,850	,	-,,,,,
	PROJECTS, 1980, BY TYPE OF ORGANIZATION								
12	Drains owned by one landowner number of projects		7	1		15	3	4	2
13	acres served ²		5,209	1,200		13,600	2,394	31,000	1,500
14	Cooperative or mutual drainsnumber of projects	4		4	2	2	15		
15	acres served ²	2,390		6,780	3,800	3,200	55,065		
16	Legally organized public drains number of projects	1		4					
17	acres served ²	15,983		27,893					
	PROJECTS, 1980, BY YEAR STARTED								
18	1950-1959 number of projects	4		5	2	• 11	15	2	2
19	acres served ²	2,390		7,980	3,800	8,650	55,295	1,000	1,500
20	Prior to 1950number of projects	1	7	4		6	3	2	
21	acres served ²	15,983	5,209	27,893		8,150	2,164	30,000	***
	DRAINAGE OPERATIONS, 1950-1959								
22	Cost of drainage works and servicesprojects reporting	4	2	5	2	14	17	3	(4)
23	dollare	10,010	1,603	31,574	13,500	41,013	346,535	32,629	(4)
24	New drainage works constructed, enlarged, or installedprojects reporting	4	2	5	2	14	17	3	(4)
25	dollars	10,010	1,603	31,574	13,500	41,013	337,535	10,629	(4)
26	Open dstcheeprojects reporting	4	2	5	2	14	17	3	(4)
27	length, miles	5.9	1.5	15.3	13.0	31.1	153.0	7.3	(4)
28	Tile or covered drainsprojects reporting				***		7		
29	length, miles						36.2		
30	Levees or dikesprojects reporting							1	
31	length, miles							2.4	
32	Pumpsprojects reporting							1	
8a	number of pumps							1	
84	Other (see text)projects reporting								
35	Cost of maintenance, operation, repair, and administration						2	1	
36	dollars						9,000	22,000	
-00	dollags						7,000	22,000	

land served by two or more projects counted only once.
Acres served by two projects are included for each project. See text.
Includes projects taken over by another project prior to 1960. See text.
Included in State total only.

${\tt County\ Table\ 1.-DRAINAGE\ PROJECTS,\ 1960\ AND\ 1950;\ AND\ OPERATIONS,\ 1950-1959}$

Item and Census year	Lee	Marion	Marlboro	Orangeburg	Sumter	Williamsburg	All other
	nee	MAPTON	PRLIDOLO	rangeourg	Sumter	Williamsburg	counties1
AREA							
1 Approximate land area	261,760	307,200	308,480	707,200	425,600	595,840	812,80
2 Land in farmsacres 1959	190,608	153,298	174,814	456,670	242,834	381,966	431,14
3 Drainage projectsnumber 1960		12	8	8	5	7	
1950	3	6	3	4	1	3	
5 Total area in drainage projects ²	15,092	1.,806	6,914	52,483	4,300	51,456	
1950	15,09.	9,706	3,614	46,848	1,200	42,456	4,44
7 Area not used for agriculture or not drained acres served 1960	1,400			500			
8 Net area drained and used for agriculture acres served 1960	13,691	12,806	6,914	51,983	4,300	51,456	
9 Drainage established before 1950 acres served 1960	12,69.	9,706	3,614	46,848	1,200	42,456	
0 Area added, 1950-1959 acres served 1960		3,100	2,300	5,135	3,100	9,000	
Area served by two or more projects acres served 1960						***	
PROJECTS, 1960, BY TYPE OF ORGANIZATION							
2 Drawns owned by one landowner number of projects		5	4	3	3	1	
3 acres served ³ .		7,160	3,550	4,740	3,000	2,800	
4 Cooperative or mutual drainsnumber of projects	1	6	,	3	>	4	
5 acres served ³ .	580	4,360	.,250	3,650	1.300	8,000	
6 Legally organized public drainsnumber of projects	1	1	1	2	2,500	2,000	
7 acres served ³ .	13,112	1,286	1,114	43,593		40,656	
				, , ,		,,,,,,	
PROJECTS, 1960, BY YEAR STARTED							
8 1950-1959number of projects		6	*	4	4	4	•••
acres served ³		2,160	3,300	4,635	2,100	8,000	
Prior to 1950number of projects		É		4	1	3	••
acres served ³	13,692	∍,706	3,614	47,348	1,300	43,456	• • •
DRAINAGE OPERATIONS, 1950-1959 ⁴							
2 Cost of drainage works and servicesprojects reporting		g	7	5	4	5	
dollars		22,905	51,308	24,278	24,200	52,670	
New drainage works constructed, enlarged,					,		
or installed		8	7	5	4	5	•••
6 Open ditches	• • •	23,405	55,308	-4,.78	24,200	50,670	
	***	3	6	5	4	5	•••
,	• • •	19,1	28.9	21.9	18.3	20.0	•••
8 Tile or covered drains		***		• • •			•••
D Levees or dikes	***	***	5.5	***			•••
Levels or dixes				• • •	1		
2 Pumpeprojects reporting		***			2.0		•••
z rumpeprojects reporting			***	***			•••
4 Other (see text)			***	• • •			
Cost of maintenance, operation, repair, and	***	•••					
administration						1	
6 dollars						2,000	

Includes Chester and York counties.

And served by two or more projects counted only once.

Acres served by two projects are included for each project. See text.

Includes projects taken over by another project prior to 1960. See text.

State Table 1.-DRAINAGE PROJECTS-NUMBER, AREA, COST, AND WORKS, 1920 TO 1960

[See	text for comparability of de	utn]			
Item	1960 Census	1950 Census	1940 Census	1930 Census	1920 Census
AREA					
Approximate land areaacros	48,881,920	48,983,040	48,983,040	49,195,520	49,195,520
Land ie farms	44,850,666	44,785,529	39,473,584	36,470,083	34,636,491
Drainage projectsnumber	41	34	1202	NA.	NA
Total area in drainage projects	658,580	707,263	676,472	697,758	222,062
Area not used for agriculture or not drainedacres served		NA	NA.	NA.	NA.
Net area drained and used for agriculture	658,580	NA.	² 647,173	² 684,746	NA
Drainage established 10 years or more before Census date	647,251	NA NA	NA	NA NA	NA NA
Drainage established within 10 years of Census date	11,329	NA.	NA NA	NA.	NA
Area served by two or more projects	2,010	NA	35,100	•••	12,139
PROJECTS BY TYPE OF ORGANIZATION					
Draice owned by one landownernumber of projects		(3)	NA.	NA.	NA NA
acres served		(3)	(3)	³ 2,000	
Cooperative or mutual drains	8	(3)		***	
scres served	11,059	(*)			
Legally organized public drains	33	332	NA.	NA.	N.A
acres served	649,531	³ 706,973	³603,966	³ 621,258	222,062
PROJECTS BY YEAR STARTED					
Started 10 years or more before Census date	33	NA	NA.	NA.	NA NA
acres served	649,531	NA.	676,472	436,665	59,446
Started within 10 years of Census date	8	NA.		NA.	, NA
acres served	11,059	NA		261,093	162,616
OPERATIONS, 10-YEAR PERIOD PRECEDING CENSUS DATE					
Cost of drainage works and services	22	17	NA NA	NA	NA.
dollars	298,591	483,275	NA	NA NA	NA NA
New draunage works constructed, enlarged, or installed	11		NA NA	NA NA	N.F
cost, dollars	110,334		NA NA	NA NA	NA NA
Open ditchesprojects reporting	38.4		NA NA	NA NA	NA NA
length, miles	36.4		NA NA	NA.	NA NA
Tile or covered drams			NA.	NA NA	NJ.
length, miles			NA NA	NA.	NA NA
length, miles		***	NA NA	NA.	NA NA
Pumps projects reporting		NA.	NA NA	NA.	NA NA
number of pumps		NA NA	NA NA	NA.	NA NA
Other (see text)		NA.	NA.	NA.	NA NA
Cost of maintenance, operation, repair, and administration projects reporting	15	17	NA NA	NA.	NA NA
dollars	188,257	483,275	NA.	NA.	NA NA
	, , ,	,			
STATUS ON CENSUS DATE					
Capital investmentdollars	NA NA	NA.	5,078,771	4,534,768	1,461,063
Physical works: Open ditcheslength, sules	NA.	NA	840.7	854.4	237.8
Tile drains	NA.	NA.	335.8	315.3	179.3
Levees and dikeslength, miles	NA.	NA.	7.4		2.4
Pumping unitsnumber of units	NA NA	NA.			

MA Not available.

In 1940 each county drain was counted as a separate project. See text.

Not 1912 comparable. See text.

All projects in 1950 included with county drains, except 2 counties and 290 acres from Census of Irrigation; 1940 figures exclude 72,506 acres in "irrigation enterprises"; and 1950 figures exclude 72,000 acres in "irrigation enterprises." See text.

State Table 2.-DRAINAGE

			ed and used lture, 1960	Are	a by period drain	age was establishe	ed.
Size of project (Based on area of agricultural land in project)	Number of projects	Total	Served by two	Befor	e 1950	Area added	1950-1959
		(acres)	or more projects (acres)	Projects reporting	Acres	Projects reporting	Acres
All projects.	41	660,590	4,020	35	649,261	8	11,32
500 to 999 acres	4	2,820		3	2,120	1	70
1,000 to 1,999 acres	6	7,979	2,010	2	2,010	5	5,96
2,000 to 4,999 acres	7	21,786		6	19,406	1	2,38
5,000 to 9,999 acres	9	64,609	1,490	9	64,609		
10,000 to 19,999 acres	6	101,096	520	6	101,096		
20,000 to 49,999 acres	5	152,654		5	152,654		
50,000 to 99,999 acres	3	197,579		3	195,299	1	2,280
100,000 or more acres	1	112,067		1	112,067		

State Table 3.-DRAINAGE PROJECTS, 1960,

		Area draine for agricul		Ares	Area by period drainage was established					
Type of organization	Number of projects	Total	Served by two	Before	1950	Area added 1950-1959				
	F0	(acres)	projects (acres)	Projects reporting	Acres	Projects reporting	Acres			
All projects	41	660,590	4,020	35	649,261	8	11,32			
Drains owned by one landowner.										
Cooperative or mutual drains	8	11,059	2,010	2	2,010	7	9,04			
Legally organized public drains	33	649,531	2,010	33	647,251	1	2,28			

State Table 4.-DRAINAGE PROJECTS, 1960,

		Area draine for agricul		Area by period drainage was established					
Year of organization	Number of projects		Served by two	Befor	e 1950	Area added	1950-1959		
	projects	Total (acres)	or more projects (acres)	Projects reporting	Acres	Projects reporting	Acres		
All projects.	41	660,590	4,020	35	649,261	8	11,32		
1950-1959	8	11,059	2,010	2	2,010	7	9,04		
Prior to 1950	33	649,531	2,010	33	647,251	1	2,28		

PROJECTS, 1960, BY SIZE

Tot	al	For new	works	Open d	itches	Tile or cove	red drains	Levees ar	nd dikes	Frump	os	Other.
rojects reporting	Dollers	Projects reporting	Dollars	Frojects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number	projects reporting
22	298,591	11	110,334	11	38.4							
2	1,377	1	900	1	0.5							
6	18,115	6	17,145	6	11.7							
1	7,000	1	7,000	1	3.8							
1	2,557											
3	75,299											
5	66,210	1	10,137	1	3.6							
3	118,105	2	75,152	2	18.8							
1	9,928											

BY TYPE OF ORGANIZATION

Cost of d	rainage works	and services,	1950-1959			New works	onstructed, e	enlarged, or i	installed, 19	50-1959		
To	tal	For new	works	Open d	itches	Tile or cover	ed drains	Levees a	nd dikes	Ришр	s	Other,
Projects reporting	Dollars	Projects reporting	Dollars	Frojects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Frojects reporting	Number	projects reporting
22	298,591	11	110,334	11	38.4							
8	26,015	8	25,045	8	16.0							
14	272,576	3	85,289	3	22.4							

BY YEAR OF ORGANIZATION

Cost of d	trainage works	and services,	1950-1959			New works	constructed, en	mlarged, or i	stalled, 195	0-1959		
To	otal	For ne	works	Open d	i tches	Tile or cove	ered drains	Levees a	nd dikes	Pur	трв	Other,
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Frojects reporting	Length (miles)	Projects reporting	Number	projects reporting
22	298,591	11	110,334	11	38.4							
8	26,015	8	25,045	8	16.0							
14	272,576	3	85,289	3	22.4							

County Table 1. - DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

Item and Census year	The State	Beadle	Bon Hamme	Brookings	Brown	Charles Mix	Clark	Clay
AREA								
Approximate land areaacres 1960	48,881,920	807,040	361,600	512,640	11,073,280	706,560	624,640	257,92
and in farmsacres 1959	44,850,666	771,745	352,009	499,797	1 _{1,077,193}	686,669	587,936	248,78
Drainage projectsnumber 1980	41	1	1	3	1	1	1	
1950	34	1	1	1	1	1	1	
Fotal area in drainage projects ² acres served 1960	658,580	8,192	3,277	9,580	112,067	800	6,291	62,4
1950	707,263	8,192	3,277	7,200	112,067	800	6,291	59,0
Area not used for agriculture or not drained acres served 1960								
Net area drained and used for agriculture acres served 1960	658,580	8,192	2,277	9,580	112,067	005	6,291	62,4
Dramage established before 1950 acres served 1960	647,151	8,192	3,277	7,200	112,067	800	6,291	59,0
Area added, 1950-1959 acres served 1960	11,329			:,380				3,4
Area served by two or more projects acres served 1980	2,010			1,490				
PROJECTS, 1960, BY TYPE OF ORGANIZATION								
Orains owned by one landowner								
acres served ³				4 + 4				
Cooperative or mutual drains	9							
acres served ³	11,059			3,870				1,1
	33	1			1	1		-,-
Legally organized public drainsnumber of projects acres served 3	649,531	8,192	3,277	7,210	112,067	800	6,291	61,3
actes served	04.,22.	0,1 5	-,	1,000	220,000	-	0,0.1	
PROJECTS, 1960, BY YEAR STARTED								
1950-1959number of projects	8					•••		
acres served ³	11,059			2,870				1,1
Prior to 1950number of projects		2	1		1	1	1	
acres served ³	649,591	8,192	3,277	7,11	11.,067	800	6,291	61,3
DRAINAGE OPERATIONS, 1950-1959 ⁴								
Cost of drainage works and servicesprojects reporting	1				1			
dollars	. 112,571			8,196	9,928			86,5
New drainage works constructed, enlarged, or installedprojects reporting	11							
dollars	110,334			2,5				60,4
Open ditchesprojects reporting	11							
length, miles	20.4							14
Tile or covered drains								
length, miles								
Levees or dikes								
Levees or dikes								
Pumpeprojects reporting								
number of pumps	4 * 4							
Other (see text)								
Cost of maintenance, operation, repair, and administrationprojects reporting	10			1	1.			
dollars	188,.57			ne	0,028			26,0

The excess of farm acreage over approximate land area is due to the fact that the entire acreage of a farm is tabulated as in the county in which the headquarters is located, even though a part of the farm may be situated in an adjoining county.

Land served by two or more projects counted only one.

Acres served by two projects are included for each project. See text.

"Includes projects taken over by another project prior to 1960. See text.

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

AREA 1 Approximate land stea	_			text for comparabili	oj 0. 1000 alig 1900 i	Cince				
Approximate land area		Item and Census year	Codington	Davison	Day	Douglas	Hamlin	Hanson	Hutchinson	Jerauld
Delia reference March Ma		AREA								
2 Desirate projects 1,000 1,00	1	Approximate land area	442,240	276,480	678,400	1 _{278,400}	332,800	275,840	520,960	337,920
3	2	Land in farmsacres 1959	415,574	272,295	638,207	1284,629	311,092	259,885		317,266
Total rate in desirage projects Section		Drainage projectsnumber 1960	1	1	1		1	1		1
1900	4	1950	1	1	1	1	1	1	1	1
1806. 2,406 13,474 3,080 19,640 13,577 8,310 8,740 1	2	Total area in drainage projects	2,408	15,474	840	19,640	13,599	8,510	8,760	480
Arm not used for agriculture or not drusted sures served 1800. 7,408 15,474 640 19,400 13,579 8,310 8,700		1950	2,408	15,474	3,080	19,640				480
Not area drawed and used for agriculture	7	Area not used for agriculture or not drained acres served 1960								
Character established before 1800	8	Not area drained and used for agriculture acres served 1960	2,408	15,474	840	19,640	13,599	8,510		480
10 Area served by two or more projects.	8	Dramage established before 1950 acres served 1960	2,408	15,474	840				· ·	480
11 Ames served by two or more projects	10	Area added, 1950-1959 acres served 1960				·	·			
PROJECTS, 1980, BY TYPE OF ORGANIZATION	11	Area served by two or more projects acres served 1960								
Data control by con landsonter number of projects								,		
18 Cooperative or mutual draines										
1										
18					• • • • • • • • • • • • • • • • • • • •					
Legally organized public dramas					•••					
15										
### PROJECTS, 1960, BY YEAR STARTED 18 1980-1959						_	1	1	1	1
18 1890-1959	17	acres served ³	2,408	15,474	840	19,640	13,599	8,510	8,760	480
19		PROJECTS, 1960, BY YEAR STARTED								
Prior to 1860	18	1950-1959								
21	19	acres served ³								
DRADAGE OPERATIONS, 1909-1950 4 20 Cost of drainage works and services	20	Prior to 1950 number of projects	1	1	1	1	1	1	1	1
22 Cost of drainage works and services	21	acres served ³	2,408	15,474	840	19,640	13,599	8,510	8,760	480
25 New drainage works constructed, enlarged, or installed		DRAINAGE OPERATIONS, 1950-1959 4								
New drainage works constructed, enlarged, of installed	22	Cost of drainage works and servicesprojects reporting			1	1	1			
of installed	23	dollars			477	763	764			
26 Open ditches	24	New drainage works constructed, enlarged, or installed								
27	28	dollars								
28 Tile or covered drainas	26	Open ditchesprojects reporting								
1	27	length, miles								
30 Levoes or differs	28	Tile or covered drainsprojects reporting								
1	29	length, miles								
Pumps	30	Levees or dikesprojects reporting								
88	81	length, miles								
88	82	Pumpsprojects reporting								
36 Cost of maintenance, operation, repair, and administration	88									
38 Cost of maintenance, operation, repair, and administration	84	Other (see taxt)								
	35	Cost of maintenance, operation, repair, and	j							
38 dollars 477 763 764					-	_		• • •		
	88	dollars			477	763	764			

The excess of farm acreage over approximate land area is due to the fact that the entire acreage of a farm is tabulated as in the county in which the headquarters is located, even though a part of the farm may be situated in an adjoining county.

**Land served by two or more projects counted only counted on the counted only counted on the count

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959 [See text for comparability of 1960 and 1950 data]

==									
	Item and Consus year	Kingsbury	Lake	Lincoln	Lyman	McCook	Marshall	Miner	Minnehahs
	AREA	_							
1	Approximate land area	524,160	365,440	368,640	1,066,880	369,280	560,000	365,440	521,600
2	Land in farmsacres 1959	512,555	344,785	354,988	937,075	363,080	534,185	346,258	491,584
3	Drainage projectsnumber 1960	1	1	1	1	1	2	1	2
4	1950	1	1	1	1	1	1	1	,
5	Total area in drainage projects	9,160	25,805	33,971	4,320	2,080	91,392	5,200	39,732
6	1950	9,160	25,805	33,971	4,320	2,080	91,392	5,200	42,172
7	Area not used for agriculture or not drained acres served 1960								·
в	Net area drained and used for agriculture acres served 1980	9,160	25,805	33,971	4,320	2,080	91,392	5,200	39,732
9	Drainage established before 1950 acres served 1980	9,160	25,805	33,971	4,320	2,080	91,392	5,200	39,732
10	Area added, 1950-1959 acres served 1960						·	·	
11	Area served by two or more projectsacres served 1960								
	PROJECTS, 1980, BY TYPE OF ORGANIZATION								
12	Drains owned by one landowner number of projects	• • • •				• • • •			
13	acres served ² ,,								
14	Cooperative or mutual drainsnumber of projects								
15	acres served ² ,,	• • •							
16	Legally organized public drainsnumber of projects	1	1	1	1	1	2	1	2
17	acres served ²	9,160	25,805	33,971	4,320	2,080	91,392	5,200	39,732
	PROJECTS, 1960, BY YEAR STARTED								
	1950-1959 number of projects	•••	•••						
19	acres served ²	•••							
	Prior to 1950number of projects	1	1	1	1	1	2	1	2
21	acres served ²	9,160	25,805	33,971	4,320	2,080	91,392	5,200	39,732
	DRAINAGE OPERATIONS, 1950-1959 8								
	Cost of drainage works and services projects reporting	1	1	1	•••		1	•••	1
23	dollars New drainage works constructed, enlarged,	2,557	28,847	10,387			9,110	•••	18,267
	or installedprojects reporting	•••		1			•••		
25	doltars		• • • •	10,137		•••			
26	Open ditches		•••	1					
27	length, miles			3.6					
28	Tile or covered drainsprojects reporting			•••					
29	length, miles								•••
30	Levees or dikesprojects reporting	•••					•••		•••
31	length, miles	•••	•••	• • • • • • • • • • • • • • • • • • • •					•••
32	Pumpsprojects reporting	• • •							•••
33	number of pumps								
34	Other (see text)			• • • • • • • • • • • • • • • • • • • •					
35	Cost of maintenance, operation, repair, and administrationprojects reporting	1	1	1			1		1
36	dollars	2,557	28,847	250	•••		9,110		18,267

^{*}Land served by two or more projects counted only once.

*Acres served by two projects are included for each project. See text.

*Includes projects taken over by another project prior to 1960. See text.

County Table 1. - DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

	[544	text for comparabili	J					
Item and Census year	Moody	Roberts	Sanborn	Spink	Turner	Union	Yankton	All other counties1
AREA								
1 Approximate land areaacros 1980	334,720	711,040	365,440	963,840	391,040	290,560	333,440	6,323,20
2 Land in farmsacres 1959	323,323	671,761	339,791	921,614	384,851	275,265	307,880	5,437,23
3 Drainage projectsnumber 1980	1	2	1	2	ž	4	1	
4 1950	1	1	1	1	1	1	1	
5 Total area in drainage projects 2	4,681	8,576	4.,880	16,679	52,017	20,960	28,800	
B 1950	4,681	8,576	42,880	15,929	50,217	17,920	28,800	55,33
7 Area not used for agriculture or not drained acres served 1980								
8 Net area drained and used for agriculture acres served 1950	4,681	8,576	42,880	16,629	52,017	20,960	28,800	
9 Dramage established before 1950 acres served 1960	4,681	8,576	42,880	15,929	50,217	17,920	28,800	
Area added, 1950-1959 acres served 1960				700	1,800	3,040		
Area served by two or more projects acres served 1980	•••					520		
PROJECTS, 1980, BY TYPE OF ORGANIZATION								
Drains owned by one landowner number of projects								
acres served ³								
4 Cooperative or mutual drainsnumber of projects				1	1	3		
acros served 3				700	1,800	3,560		
6 Legally organized public drainsnumber of projects	1	2	1	1	1	1	1	
7 acres served 3,,	4,681	8,576	42,880	15,929	50,217	17,920	28,800	
PROJECTS, 1980, BY YEAR STARTED								
8 1950-1959 number of projects				1	1	3		
9 acres served ³				700	1,800	3,560		
Prior to 1950number of projects	1	2	1	1	1	1	1	
acres served ³	4,681	8,576	42,880	15,929	50,217	17,920	28,800	
DRAINAGE OPERATIONS, 1950-1959								
2 Cost of drainage works and servicesprojects reporting			1	1	2	4	1	
3 dollars			244	900	29,083	84,062	8,465	
4 New drainage works constructed, enlarged, or installed				1	2	3		
5 dollars				900	21,317	10,290		
6 Open ditchesprojects reporting				1	2	3		
7 length, miles				0.5	7.5	6.6		•••
8 Tile or covered drainsprojects reporting								
9 length, miles								
0 Levees or dikesprojecte reporting								
length, miles	• • •							•••
2 Pumpsprojects reporting								
3 number of pumps								
4 Other (see text)projects reporting								
5 Cost of maintenance, operation, repair, and								
administrationprojects reporting			1		1	1	1	•••
6 dollars			244	•••	7,766	73,772	8,465	

Includes Butte, Meade, Pennington, and Todd counties.

Land served by two or more projects counted only once.

Acres served by two projects are included for each project. See text.

Includes projects taken over by another project prior to 1960. See text.



State Table 1.-DRAINAGE PROJECTS-NUMBER, AREA, COST, AND WORKS, 1920 TO 1960

[See text for comparability of data]

[500	text for comparability of di	M. H.			
Item	1960 Census	1950 Census	1940 Census	1930 Census	1920 Census
AREA					
Approximate land area	26,727,680	26,750,080	26,855,040	26,679,680	26,679,68
Land in farms	16,080,285	18,534,380	18,492,898	18,003,241	19,510,85
Drainage projectsnumber	179	151	155	NA NA	N.
Total area in drainage projects	730,855	615,838	601,592	593,560	363,67
Area not used for agriculture or not drained	139,976	NA.	, NA	NA.	N.
Net area drained and used for agricultureacres served	590,879	NA.	1579,283	1413,791	l n
Draunage established 10 years or more before Census date	492,825	NA.	, NA	NA.	N.
Drainage established within 10 years of Census dateacres served	98,054	NA NA	NA.	NA.	N.
Area served by two or more projects	6,527	5,148	16,580	5,832	
PROJECTS BY TYPE OF ORGANIZATION					
Drains owned by one landowner	8	2	NA NA	NA.	***
scree served	8,433	2,175	1,200	600	• • • • • • • • • • • • • • • • • • • •
Cooperative or mutual drains	37	20	•••	***	•••
acres served	39,293	21,623	•••		•••
Legally organized public drains	134	129	NA.	NA NA	N.
acres served	549,680	592,040	600,392	592,960	363,67
PROJECTS BY YEAR STARTED					
Started 10 years or more before Census datenumber of projects	154	132	NA NA	NA.	
acres served	467,976	593,248	573,432	486,830	
Started within 10 years of Census datenumber of projects	25	19	NA.	NA NA	N.
acres served	129,430	22,590	28,160	106,730	363,67
				,	,
OPERATIONS, 10-YEAR PERIOD PRECEDING CENSUS DATE					
Cost of drainage works and services projects reporting	36	26	NA.	NA.	N.
dotlars	2,136,236	270,623	NA.	NA NA	N/
New drainage works constructed, enlarged, or installed	22	² 23	NA.	NA	N.
cost, dollars	1,853,349	² 255,697	. NA	NA NA	N
Open ditches	22	23	NA.	NA.	N/
length, miles	134.6	105	NA NA	NA NA	N/
Tile or covered drains			NA NA	NA NA	N.
longth, miles			NA.	NA.	N.
Levees or dikesprojects reporting			NA NA	NA NA	N.
longth, mules			NA.	NA NA	N.
Pumps projects reporting		NA	NA.	NA NA	N.
number of pumps		NA.	NA.	NA.	N.
Other (see text)		NA.	NA NA	NA NA	N/
Cost of maintenance, operation, repair, and administration projects reporting	17	na.	NA.	NA.	N/
dollars	282,887	14,926	NA.	NA NA	N.
STATUS ON CENSUS DATE					
Capital investmentdollars	NA NA	NA.	6,501,750	6,366,747	2,925,94
Physical works:					
Ópen ditcheslength, miles	NA NA	NA	1,508.0	1,413.0	777.
Tile drains	NA	NA.			0.:
Levees and dikes length, miles	NA .	NA NA	30.0	29.8	42.1
Pumping unitsnumber of units	NA NA		• • • •		•••

NA Not svailable.

Not fully comparable. See text.

Cost of new works for lands not previously drained.

State Table 2.-DRAINAGE

			ed and used lture, 1960	Area	by period drain	age was established	i
Size of project (Based on area of agricultural land in project)	Number of projects	Total	Served by two	Befor	e 1950	Area added 1	950-1959
		(acres)	or more projects (acres)	Projects reporting	Acres	Projects reporting	Acres
All projects	179	597,406	13,054	164	499,352	18	98,05
500 to 999 acres	55	38,260	700	44	31,490	11	6,77
1,000 to 1,999 acres	60	83,789	3,267	58	80,839	3	2,95
2,000 to 4,999 acres	41	131,220		39	126,920	2	4,30
5,000 to 9,999 acres	11	75,379	500	11	75,379		
10,000 to 19,999 acres	8	108,569	2,560	8	103,200	1	5,36
20,000 to 49,999 acres	3	69,189		3	69,189		
50,000 to 99,999 acres	1	91,000	6,027	1	12,335	1	78,66
100,000 or more acres							

State Table 3.-DRAINAGE PROJECTS, 1960,

		Area draine for agricul		Area by period drainage was established					
Type of organization	Number of projects	Total	Served by two	Before	1950	Area added	.950-1959		
	70	(acres)	or more projects (acres)	Projects reporting	Acres	Projects reporting	Acres		
All projects.	179	597,406	13,054	164	499,352	18	98,05		
Drains owned by one landowner	8	8,433		4	4,533	4	3,90		
Cooperative or mutual drains	37	39,293	3,967	26	29,173	12	10,1		
Legally organized public drains	134	549,680	9,087	134	465,646	2	84,0		

State Table 4.-DRAINAGE PROJECTS, 1960,

		Area draine for agricul		Are	a by period drain	age was establish	ed
Year of organization	Number of projects		Served by two	Befor	e 1950	Area added	1950-1959
	projects	Total (acres)	or more projects (acres)	Projects reporting	Acres	Projects reporting	Acres
1 All projects.	179	597,406	13,054	164	499,352	18	98,054
1950-1959	25	129,430	8,587	10	31,376	18	98,054
Prior to 1950	154	467,976	4,467	154	467,976		

PROJECTS, 1960, BY SIZE

	New works constructed, enlarged, or installed, 1950-1959										rainage works	Cost of d
Other,	ps	Pum	nd dikes	Levees a	ered drains	Tile or cov	itches	Open d	works	For new	tal	To
projects reporting	Number	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Frojects reporting	Dollars	Projects reporting	Dollars	Projects reporting
							134.6	22	1,853,349	22	2,136,236	36
							26.6	12	68,347	12	94,047	16
							7.0	3	14,000	3	44,700	8
							17.5	3	30,000	3	94,487	7
"							6.0	1	8,000	1	37,000	2
							19.7	1	455,942	1	455,942	1
							57.8	12	1,277,060	12	1,410,060	12

BY TYPE OF ORGANIZATION

Cost of d	rainage works	and services,	1950+1959			New works	constructed, e	enlarged, or i	nstalled, 19	50-1959		
To	tal	For new	works	Open d	itches	Tile or cove	red drains	Levees a	nd dikes	Pump	s	Other,
Projects reporting	Dollars	Projects reporting	Dollars	Frojects reporting	Length (miles)	Projects reporting	Length (miles)	Frojects reporting	Length (miles)	Projects reporting	Number	projects reporting
36	2,136,236	22	1,853,349	22	134.6							
7	39,187	5	21,000	5	12.5							
19	137,547	12	81,347	12	31.6							
10	1,959,502	5	1,751,002	5	90.5							

BY YEAR OF ORGANIZATION

Cost of	drainage works	and services,	1950-1959			New works	constructed, e	nlarged, or i	nstalled, 195	0-1959		
To	otal	For ne	w works	Open d	itches	Tile or cov	ered drains	Levees a	nd dikes	Pur	mps	Other,
Projecta reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number	projects reporting
36	2,136,236	22	1,853,349	22	134.6							
26	2,028,049	21	1,845,349	21	128.6							
10	108,187	1	8,000	1	6.0							
			1			1	ı					

County Table 1. - DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

	ecstur	Dyer	Fayette
AREA			
1 Approximate land area	221,440	337,280	450,560
2 Land in farms	145,865	262,412	375,671
3 Drainage projects	6	19	9
1950 151 1 15 10 11	2	20	9
5 Total area in drainage projects	9,324	158,870	23,002
8 1950 615,838 13,231 52,238 11,899 24,246	711	53,068	23,002
7 Area not used for agriculture or not drained acres served 1960 139,976 6,300 13,000 4,050	2,600	41,230	
Net area drained and used for agriculture acres served 1960 590,879 4,931 39,238 13,029 16,956	6,724	117,640	23,002
Drainage established before 1950 acres served 1960 492,825 4,431 39,238 11,899 16,956	4,724	38,975	23,002
Area added, 1950-1959	2,000	78,665	
Area served by two or more projects acres served 1960 6,527		6,027	
PROJECTS, 1980, BY TYPE OF ORGANIZATION			
Drains owned by one landowner	1		
acres served ² 8,433	2,000		•••
t Cooperative or mutual drains	• • •	10	
s acres served ² 39,293 500 1,130		10,856	
Legally organized public drains	5	9	9
acres served ² 549,680 4,431 39,238 11,899 16,956	4,724	112,811	23,002
PROJECTS, 1960, BY YEAR STARTED			
3 1950-1959	1	2	
acres served ² 129,430 500 1,130	2,000	93,560	
Prior to 1980	5	17	9
acros served . 467,976 4,431 39,238 11,899 16,956	4,724	30,107	23,002
DRAINAGE OPERATIONS, 1950-1959 ³			
Cost of drainage works and services	(4)	3	•••
dollars 2,136,236 4,095 11,000 8,000	(4)	1,524,101	•••
New drainage works constructed, enlarged, or installed	(4)	3	
dollars 1,853,349 4,095 11,000	(4)	1,391,101	
3 Open ditches	(4)	3	
length, miles 134.6 1.3 4.0	(4)	63.2	
Tile or covered drainsprojects reporting			•••
length, miles			•••
D Levees or dikes			
length, miles			•••
Pumps	•••		•••
aumber of pumps			•••
Other (see text)			•••
Cost of maintenance, operation, repair, and administration		1	
dollare 282,887 8,000		133,000	

land served by two or more projects counted only once.

Acres served by two projects are included for each project. See text.

Includes projects taken over by another project prior to 1960. See text.

Tincluded in State total only.

County Table 1. –DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

=	Item and Census year	Gibson	Hardeman	Hardin	Haywood	Henderson	Henry	11	
				100.00	III.J WOOD	Henderbon	neury	Humphreys	Lake
	AREA								
1	Approximate land areaacres 1980	388,480	419,840	375,680	332,160	329,600	383,360	355,200	104,960
2	Land in farms	344,464	275,578	197,122	266,279	223,786	252,293	148,732	87,639
3	Drainage projectsnumber 1960	18	7	11	12	11	6	1	1
4	1950	18	6	9	11	16	5	1	1
5	Total area in drainage projects	69,477	8,554	15,106	41,344	15,085	22,858	1,702	8,000
6	1950	69,477	7,754	15,106	39,044	26,903	31,542	1,702	3,164
7	Area not used for agriculture or not drained acres served 1960	8,000			7,600		16,696		800
6	Net area drained and used for agriculture acres served 1960	61,477	8,554	15,106	33,744	15,085	6,162	1,702	7,200
9	Dramage established before 1950 acres served 1960	61,477	7,754	15,106	31,444	15,085	6,162	1,702	3,164
10	Area added, 1950-1959 acres served 1960		800		2,300				4,036
11	Area served by two or more projects acres served 1960	•••							
	PROJECTS, 1960, BY TYPE OF ORGANIZATION								
12	Drains owned by one landowner number of projects		1		1				
13	acres served ²		800		500				
14	Cooperative or mutual drainsnumber of projects	2		2	2				
15	acres served ²	1,370		1,500	4,600				
16	Legally organized public drains number of projects	16	6	9	9	11	6	1	1
17	acres served 2	60,107	7,754	13,606	28,644	15,085	6,162	1,702	7,200
	PROJECTS, 1980, BY YEAR STARTED								
16	1950-1959number of projects		1	2	1				1
19	scres served ²		800	1,500	2,300				7,200
20	Prior to 1950number of projects	18	6	9	11	11	6	1	
21	acres served ²	61,477	7,754	13,606	31,444	15,085	6,162	1,702	
	DRAINAGE OPERATIONS, 1950-1959 ⁵								
22	Cost of drainage works and services projects reporting		(4)	2	2				1
23	dollars		(4)	14,200	27,000	•••			202,382
24	New drainage works constructed, enlarged, or installed		(4)		2				1
25	dollars		(4)		23,000				202,382
26	Open ditchesprojects reporting		(4)		2				1
27	length, miles		(4)		13.0				8.7
28	Tile or covered drainsprojects reporting								
29	length, miles								
30	Levees or dikes								
31	length, miles								
32	Pumpsprojects reporting								
33	number of pumps					•••	***		• • • • • • • • • • • • • • • • • • • •
34	Other (see text)			***				•••	•••
35	Cost of maintenance, operation, repair, and				•••				•••
	administrationprojects reporting			2	1				
36	dollars		•••	14,200	4,000				

Itand served by two or more projects counted only once.
Acres served by two projects are included for each project. See text.
Includes projects taken over by another project prior to 1960. See text.
Included in State total only.

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

Item and Census year	Lauderdale	McNairy	Madison	Obion	Perry	Shelby	Tipton	Weakley
AREA								
Approximate land areaacros 1960	310,400	364,160	358,400	352,000	268,160	480,640	293,120	368,640
Land in farmsacres 1959	225,566	213,956	263,409	285,759	129,748	293,581	241,009	280,127
Drainage projectsnumber 1960	4	22	12	12	1	12	10	15
1950	4	13	12	12		7	8	14
Total area in drainage projects 1	8,857	30,328	36,220	44,711	1,685	54,862	17,219	66,147
1950	8,857	25,138	36,220	45,458		43,812	17,219	66,041
Area not used for agriculture or not drained , , , , acres served 1980			6,500	18,500				14,700
Net area drained and used for agriculture acres served 1960	8,857	30,328	29,720	26,211	1,685	54,862	17,219	51,447
Drainage established before 1950 acres served 1960	8,857	25,138	29,720	24,028	1,685	53,612	17,219	51,447
Area added, 1950-1959 acres served 1960		5,190		2,183		1,250		
Area served by two or more projects acres served 1960	•••					500		
PROJECTS, 1980, BY TYPE OF ORGANIZATION								
Drains owned by one landowner number of projects		4					1	
acres served ²		3,958					1,175	
Cooperative or mutual drainsnumber of projects	2	6		1		4	5	
acres served ²	2,656	5,140		850		3,190	7,501	
Legally organized public drains number of projects	2	12	12	11	1	8	4	15
acres served ²	6,201	21,230	29,720	25,361	1,685	52,172	8,543	51,447
PROJECTS, 1980, BY YEAR STARTED								
1950-1959 number of projects		9		2		2	2	1
acres served ²		6,740		5,150		1,250	4,500	2,800
Prior to 1950number of projects	4	13	12	10	1	10	8	14
acres served ²	8,857	23,588	29,720	21,061	1,685	54,112	12,719	48,647
DRAINAGE OPERATIONS, 1950-1959 8								
Cost of drainage works and servicesprojects reporting		10		3		6	4	1
dollars		53,987		172,019		70,252	26,200	10,000
New drainage works constructed, enlarged, or installedprojects reporting		8		2		2		1
dollars		29,000		147,019		22,752		10,000
Open ditchesprojects reporting		8		2		2		1
length, miles		16.5		7.6		5.8		7.0
Tile or covered drainsprojects reporting								
length, miles								
Levees or dikesprojects reporting								
length, miles								•••
Pumpsprojects reporting								
number of pumps								•••
Other (see text)								
Cost of maintenance, operation, repair, and administrationprojects reporting		2		1		5	4	
dollars		24,987		25,000		47,500-	26,200	

Land served by two or more projects counted only once. Acres served by two projects are included for each project. See text. Includes projects taken over by another project prior to 1960. See text.

TEXAS 323

State Table 1. – DRAINAGE PROJECTS-NUMBER, AREA, COST, AND WORKS, 1920 TO 1960

[See text for comparability of data]

1122	text for comparability of di				
Item	1960 Census	1950 Census	1940 Census	1930 Census	1920 Census
Inc.	ocupac.	0.011040	0.01040	ocino de	octor.
AREA Approximate land area	168,217,600	168,648,320	168,732,160	167,934,720	167,934,720
Land in farms	143,217,559	145,389,014	137,683,372	124,707,130	114,020,62
Drainage projects	243	543	81	NA.	N.
	6,500,043	5,794,786	4,218,850	2,883,356	2,166,12
Total area in drainage projects	808,913	NA.	NA NA	NA NA	N. N.
Area not used for agriculture or not drained	5,691,130	NA.	12,819,775	1 _{1,895,486}	N.
Not area drained and used for agriculture	5,372,932	NA NA	NA NA	1,875,488	10
Drainage established 10 years or more before Census date	318,198	NA.	NA NA	NA NA	N.
Dramage established within 10 years of Census dateacres served	247,844	134,831	312,320	, and	
Area served by two or more projects	247,044	134,631	312,320		
PROJECTS BY TYPE OF ORGANIZATION					
Drains owned by one landowner,	130	² 22	NA.	NA.	N.
acres served	369,079	² 147,345	² 40,380	228,600	² 7,50
Cooperative or mutual drainsnumber of projects	43	213			
acros served	74,170	² 18,155			
Legally organized public drainsnumber of projects	70	² 62	NA.	NA.	Nu.
acres served	5,495,725	² 5,155,647	23,844,378	²2,767,477	22,102,62
PROJECTS BY YEAR STARTED		259	,,,	,,,	
Started 10 years or more before Census date	133		NA.	NA.	N.
acres served	5,744,714	² 3,355,505	3,060,462	2,366,724	893,98:
Started within 10 years of Census datenumber of projects	110	238	NA.	NA.	Nu
acres served	194,260	²1,965,642	1,158,388	516,632	1,272,14
OPERATIONS, 10-YEAR PERIOD PRECEDING CENSUS DATE					
Cost of drainage works and services	225	289	NA.	NA.	NJ.
dollars	28,895,392	9,534,229	NA.	NA.	N/
New drainage works constructed, enlarged, or installedprojects reporting	175	332	NA.	NA.	NJ.
cost, dollars	13,031,672	31,822,245	NA.	NA.	Nu.
Open ditches	171	33	NA.	NA.	Nu
length, miles	3,224.7	948	NA.	NA.	N.
Tile or covered drains	17	1	NA.	NA.	NJ.
length, miles	117.0	4	NA.	NA.	N
Levees or dikes	4	2	NA.	NA.	NJ.
length, miles	4.7	7	NA.	NA.	NJ.
Pumpsprojects reporting	5	NA.	NA.	NA.	N/
number of pumps	5	NA.	NA.	NA.	N
Other (see text)	4	NA.	NA.	NA.	NJ.
Cost of maintenance, operation, repair, and administration	141	NA.	NA.	NA.	N
dollars	15,863,720	7,711,984	NA.	NA.	N
outing	.,,	.,			
STATUS ON CENSUS DATE					
Capital investmentdollars	NA.	NA.	14,047,181	12,002,949	5,700,80
Physical works: Open disches. length, miles	, NA	NA.	4,906.3	3,661.8	2,728.
Tile drains length, miles	NA.	NA.	14.1	8.5	
Levees and dikeslength, miles	NA.	NA.	61.7	215.9	59.8
Pumping units	NA.	25	11	53	
- uniques of united	1	l ´	1	1	

NA Not available.

Not hully comparable. See text.

1905 figures exclude 446 projects and 473,639 acres in "irrigation enterprises"; 1940 figures exclude 334,092 acres in "irrigation enterprises"; 1930 figures exclude 87,279 acres in "irrigation enterprises"; 1930 figures exclude 8

State Table 2.-DRAINAGE

			ed and used lture, 1960	Area by period drainage was established					
Size of project (Based on area of agricultural land in project)	Number of projects	Total	Served by two	Befor	e 1950	Area added 1950-1959			
	(acres)		or more projects (acres)	Projects reporting	Acres	Projects reporting	Acres		
All projects.	243	5,938,974	495,688	156	5,611,598	103	327,37		
500 to 999 acres	78	51,490	12,989	28	18,897	50	32,59		
1,000 to 1,999 acres	54	71,193	17,329	31	39,063	27	32,13		
2,000 to 4,999 acres	32	99,489	28,315	21	61,701	13	37,78		
5,000 to 9,999 acres	13	96,652	33,294	12	83,828	3	12,82		
10,000 to 19,999 acres	20	277,059	52,417	18	237,472	4	39,58		
20,000 to 49,999 acres	24	777,625	82,811	24	731,213	2	46,4		
50,000 to 99,999 acres	11	735,784	78,421	11	693,884	1	41,9		
100,000 or more acres	11	3,829,682	190,112	11	3,745,540	3	84,1		

State Table 3.-DRAINAGE PROJECTS, 1960,

			Area draine for agricul		Area by period drainage was established					
	Type of organization	Number of projects	Total	Served by two	Before	1950	Area added 1950-1959			
		. •	(acres)	or more projects (acres)	Projects Acres		Projects reporting	Acres		
1	All projects.	243	5,938,974	495,688	156	5,611,598	103	327,376		
2	Drains owned by one landowner	130	369,079	166,758	64	261,172	72	107,907		
8	Cooperative or mutual drains	43	74,170	10,886	24	43,560	22	30,610		
4	Legally organized public drains	70	5,495,725	318,044	68	5,306,866	9	188,859		

State Table 4.-DRAINAGE PROJECTS, 1960,

		Area draine for agricul		Area by period drainage was established					
Year of organization	Number of projects			Befor	e 1950	Area added 1950-1959			
	projects	Total (acres)	or more projects (acres)	Projects reporting	Acres	Projects reporting	Acres		
All projects.	243	5,938,974	495,688	156	5,611,598	103	327,37		
1950-1959	110	194,260	36,018	23	54,032	88	140,2		
Prior to 1950.	133	5,744,714	459,670	133	5,557,566	15	187,1		

PROJECTS, 1960, BY SIZE

			0-1959	nstalled, 195	1950-1959	Cost of drainage works and services, 1950-1959							
	Other,	Pumps		Levees and dikes		Tile or covered drains		itches	Open ditches		For new	tal	To
	projecta reportia	Number	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting
4		5	5	4.7	4	117.0	17	3,224.7	171	13,031,672	175	28,895,392	225
1				3.7	3	0.4	4	367.2	64	264,146	65	331,711	73
1		1	1			0.1	1	347.4	40	222,519	40	263,934	49
1								216.6	22	311,492	22	418,917	28
		1	1			1.0	1	120,5	6	136,314	7	338,164	11
		1	1			1.1	2	764.6	11	996,846	12	2,127,599	18
1						1.7	1	205.5	12	255,349	12	2,420,066	24
		1	1	1.0	1	110.3	5	232.0	6	1,190,347	7	5,311,387	11
		1	1			2.4	3	970.9	10	9,654,659	10	17,683,614	11

BY TYPE OF ORGANIZATION

Cost of d	rainage works a	and services,	1950-1959		New works constructed, enlarged, or installed, 1950-1959										
To	tal	For new	works	Open d	ditches Tile or covered drains		Levees and dikes		Fumps		Other,	Γ			
rojects eporting	Dollars	Projects reporting	Dollars	Frojects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number	projects reporting			
225	28,895,392	175	13,031,672	171	3,224.7	17	117.0	4	4.7	5	5	4			
125	1,305,444	113	1,020,577	112	1,685.2	4	0.4	3	3.7	2	2	3			
32	263,423	26	224,690	26	123.4	1	0.1								
68	27,326,525	36	11,786,405	33	1,416.1	12	116.5	1	1.0	3	3	1			

BY YEAR OF ORGANIZATION

	For new Projects reporting	works Dollars	Open di Projects	itches Length	Tile or cove		Levees a		Pun	mps .	Other, projects	
		Dollars		Length.	Projects	T + >-						
	1 chot crite		reporting	(miles)	reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number	reporting	
,895,392	175	13,031,672	171	3,224.7	17	117.0	4	4.7	5	5	4	
,075,004	108	958,539	108	1,057.4	4	0.4	2	0.2	1	1	1	
820,388	67	12,073,133	63	2,167.3	13	116.6	2	4.5	4	4	3	
.07	5,004	5,004 108	5,004 108 958,539	5,004 108 958,539 108	5,004 108 958,539 108 1,057.4	55,004 108 958,539 108 1,057.4 4	5,004 108 958,539 108 1,057.4 4 0.4	5,004 108 958,539 108 1,057.4 4 0.4 2	5,004 108 958,539 108 1,057.4 4 0.4 2 0.2	5,004 108 958,539 108 1,057.4 4 0.4 2 0.2 1	5,004 108 958,539 108 1,057.4 4 0.4 2 0.2 1 1	5,004 108 958,539 108 1,057.4 4 0.4 2 0.2 1 1 1

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

		į į	ocar for comparad	lity of 1960 and 19	00 3182.)					
	Item and Census year	The State	Anderson	Austin	Bowie	Brazoria	Brazos	Burleson	Calhoun	Cameron
ļ	AREA									_
1	Approximate land areaacres 1960	168,217,600	682,880	423,680	577,920	910,080	373,120	434,560	343,040	565,120
2	Land in farmsacres 1959	143,217,559	444,650	414,165	351,142	633,166	325,983	371,000	158,054	486,198
3	Drainage projectsnumber 1960	243	1	5	10	17	9	1	14	9
4	1950	543	1	4	1	23	2		7	41
5	Total area in drainage projects acres served 1960	6,500,043	1,145	12,540	8,749	476,129	7,412	1,250	92,532	271,226
6	1950	5,794,786	1,145	11,140	1,000	374,510	1,768		93,099	277,258
7	Area not used for agriculture or not drained acres served 1960	808,913			• • • •	29,500				5,585
8	Net area drained and used for agriculture acres served 1960	5,691,130	1,145	12,540	8,749	446,629	7,412	1,250	92,532	265,641
9	Drainage established before 1950 acres served 1960	5,372,932	1,145	10,740	2,791	358,736	1,249		83,011	263,731
10	Area added, 1950-1959 acres served 1960	318,198		1,800	5,958	87,893	6,163	1,250	9,521	1,910
11	Area served by two or more projects acres served 1980	247,844				3,640			2,900	• • • • • • • • • • • • • • • • • • • •
	PROJECTS, 1960, BY TYPE OF ORGANIZATION									
12	Drains owned by one landowner number of projects	130	1	3	9	7	7		3	
13	acres served ²	369,079	1,145	3,020	7,749	25,581	5,163		3,040	
14	Cooperative or mutual drainsnumber of projects	43		1	1	1	2	1	6	2
15	acres served ²	74,170		600	1,000	510	2,249	1,250	8,058	1,910
16	Legally organized public drains number of projects	70		1		9			5	7
17	acres served2	5,495,725		8,920	•••	424,178			84,334	263,731
	PROJECTS, 1960, BY YEAR STARTED									
18	1950-1959 number of projects	110		2	6	7	7	1	7	2
19	acres served ²	194,260		1,800	3,955	24,491	5,163	1,250	37,535	1,910
20	Prior to 1950 number of projects	133	1	3	4	10	2	• • • •	7	7
21	acres served ²	5,744,714	1,145	10,740	4,794	425,778	2,249		57,897	263,731
	DRAINAGE OPERATIONS, 1950-1959 ³									
22	Cost of drainage works and servicesprojects reporting	225	(4)	3	10	17	8	(4)	11	9
23	dollars	28,895,392	(4)	7,155	56,422	4,361,601	47,450	(4)	195,183	794,412
24	New drainage works constructed, enlarged, or installed	175	(4)	2	8	15	8	(4)	7	6
25	dollars	13,031,672	(4)	4,975	51,447	775,034	46,250	(4)	139,558	169,912
26	Open ditchesprojects reporting	171	(4)	2	8	14	8	(4)	7	6
27	length, miles	3,244.7	(4)	11.2	140.3	381.7	68.5	(4)	35.2	53.0
28	Tile or covered drainsprojects reporting	17				6			1	1
29	length, mules	117.0				9.8			0.1	28.4
30	Levees or dikesprojects reporting	4								•••
31	length, miles	4.7								1
32	Pumpsprojects reporting	5				1				1
33	number of pumps	5				1				1
34	Other (see text)projects reporting	4								1
35	Cost of maintenance, operation, repair, and administrationprojects reporting	141		2	6	9	1		5	7
36	dollars	15,863,720		2,180	4,975	3,586,567	1,200		55,625	624,500

Land served by two or more projects counted only once.

Acres served by two projects are included for each project. See text.

Includes projects taken over by another project prior to 1960. See text.

Tincluded in State total only.

TEXAS 327

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959-Continued

	Item and Census year	Chambers	Colorado	Dallas	Delta	De Witt	Falls	Fannin	Fort Bend	Galveston
	AREA									
1	Approximate land areaacres 1960	394,880	1608,000	570,880	176,640	582,400	487,040	579,840	551,680	274,560
2	Land in farms	350,064	¹ 609,762	277,641	146,901	573,303	412,244	469,289	545,759	125,677
3	Drainage projectsnumber 1980	5	2	6	3	1	2	4	11	6
4	1950	21	18	18	3	1	1	3	19	6
5	Total area in drainage projects 2 screes served 1960	320,200	608,000	9,116	9,946	1,200	1,500	19,235	551,680	77,226
6	1950	392,000	603,469	226	10,541	600	20	16,735	24,515	73,865
7	Area not used for agriculture or not drained acres served 1960	33,000				600			4,500	3,500
8	Net area drained and used for agriculture acres served 1960	287,200	608,000	9,116	9,946	600	1,500	19,235	547,180	73,726
9	Drainage established before 1950 acres served 1960	287,200	608,000	6,925	9,946	600		16,735	547,180	71,992
10	Area added, 1950-1959 scree served 1960			2,191			1,500	2,500		1,734
11	Area served by two or more projects	43,219	771						31,850	
	PROJECTS, 1960, BY TYPE OF ORGANIZATION									
12	Drains owned by one landowner number of projects	4		6			2	1	7	2
13	acres served	44,419		9,116			1,500	2,500	29,945	5,192
14	Cooperative or mutual drainsnumber of projects		1						3	1
15	acres served ⁵		771						1,905	1,734
16	Legally organized public drainsnumber of projects	1	1		3	1		3	1	3
17	acres served	286,000	608,000		9,946	600		16,735	547,180	66,800
	PROJECTS, 1960, BY YEAR STARTED									
18	1950-1959number of projects		1	3			2	1	4	1
19	acres served ³		771	2,191			1,500	2,500	2,635	1,734
20	Prior to 1950number of projects	5	1	3	3	1		3	7	5
21	acres served 5	330,419	1 _{608,000}	6,925	9,946	600		16,735	576,395	71,992
	DRAINAGE OPERATIONS, 1950-1959 4									
22	Cost of drainage works and servicesprojects reporting	4	2	6	3	1	(5)	3	10	5
23	dollars	2,856,456	219,049	38,320	4,747	10,000	(5)	46,099	3,883,558	589,011
24	New drainage works constructed, enlarged, or installedprojects reporting	4	2	6			(5)	(5)	9	4
25	dollars	618,981	27,034	17,400			(5)	(5)	2,583,908	145,300
26	Open ditchesprojects reporting	4	2	6			(5)	(5)	9	3
27	length, miles	242.4	10.5	29.7			(5)	(5)	838.2	33.1
28	Tile or covered drainsprojects reporting								4	1
29	length, miles								0.4	1.0
30	Levees or dikesprojects reporting									
31	length, miles									
32	Pumpsprojects reporting	2								
33	number of pumps	2								
34	Other (see text)projects reporting			1			(3)			
35	Cost of maintenance, operation, repair, and administration	. 3	2	5	3	1		2	7	
36	dollars	2,237,475	192,015	20,920	4,747	10,000		1,329	1,299,650	443,711
		-,, 117	1,2,017	20,720	19,1197	10,000		1,525	1,277,000	- 2,/11

The excess of farm screage over approximate land area is due to the fect that the entire acreage of a farm is tabulated as in the county in which the headquarters is located, wen though a part of the farm may be situated in an adjoining county.

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County Table 1. - DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959 - Continued [See text for comparability of 1960 and 1950 data]

	Item and Census year	Grimes	Hardeman	Hardin	Harrie	Henderson	Hidalgo	Houston	Jackson	Jefferson
	AREA									
1	Approximate land areaacres 1960	512,640	438,400	572,800	1,095,040	599,040	986,240	788,480	1546,560	604,800
9	Land in farmsacres 1959	424,485	375,791	175,904	667,255	373,735	810,422	484,516	1561,188	422,292
8	Drainage projectsnumber 1980	3	1	1	9	3	3	19	10	7
4	1950				46		69	2	15	30
ŧ	Total area in drainage projects 2	1,999	625	860	1,095,040	2,300	384,800	48,137	188,572	357,274
е	1950				1,012,261		496,045	2,800	174,264	320,270
7	Area not used for agriculture or not drained acres served 1960				478,040		22,000			56,350
6	Net area drained and used for agriculture acres served 1960	1,999	625	860	617,000	2,300	362,800	48,137	188,572	300,924
9	Drainage established before 1950 acres served 1960	1,369	625		617,000		362,800	12,300	170,500	300,924
10	Area added, 1950-1959 acres served 1960	630		860		2,300		35,837	18,072	
11	Area served by two or more projects acres served 1980				16,992		70,200		5,400	960
	PROJECTS, 1960, BY TYPE OF ORGANIZATION									
12	Drains owned by one landownernumber of projects	3	1	1	8	3		14	1	1
18	acres served 5	1,999	625	860	16,992	2,300		34,137	4,700	960
14	Cooperative or mutual drainsnumber of projects							3	3	1
15	acres served							5,276	2,435	2,100
16	Legally organized public drains number of projects				1		3	2	6	5
17	acres served ³				617,000		433,000	8,724	186,837	298,824
	PROJECTS, 1960, BY YEAR STARTED									
16	1950-1959number of projects	1		1	6	3		16	4	
19	acres served ³	630		860	9,872	2,300		34,837	7,135	
469	Prior to 1950number of projects	2	1		3		3	3	6	7
21	acres served ³	1,369	625		624,120		433,000	13,300	186,837	301,884
	DRAINAGE OPERATIONS, 1950-1959									
22	Cost of drainage works and servicesprojects reporting	3	(5)	(5)	9	3	3	19	10	5
23	dollars	6,764	(5)	(5)	6,567,228	29,000	1,335,826	287,329	674,270	2,322,109
24	New drainage works constructed, enlarged, or installed	(5)		(5)	8	3	2		7	
25	dollars	(5)		(5)	5,724,528	29,000	323,000	236.921	50,746	721,358
26	Open ditchesprojects reporting	(5)		(5)	8	3	1	17	70,740	3
27	length, miles	(5)		(5)	179.9	35.2	18.0	200.6	39.2	56.0
28	Tile or covered drains			()	1/9.9		10.0			1
29	length, mules				1.0		75.0			0.4
30	Levees or dikes						75.0			5.4
81	length, miles									
32	Pumpsprojects reporting									•••
33	number of pumps									
34	Other (see text)projects reporting									
35	Cost of maintenance, operation, repair, and					"				***
	administrationprojects reporting	3	(5)		6		3	8	6	5
36	dollars	2,764	(5)		842,700	•••	1,012,826	50,408	623,524	1,600,751

The excess of farm acreage over approximate land area is due to the fact that the entire acreage of a farm is tabulated as in the county in which the headquarters is located, even though a part of the farm may be situated in an adjoining county.

Pland served by two or more projects occurred only once.

Acres served by two projects are included for each project. See text.

Includes projects taken over by another project prior to 1960. See text.

Included in State total only.

$County\ Table\ 1.-DRAINAGE\ PROJECTS,\ 1960\ AND\ 1950;\ AND\ OPERATIONS,\ 1950-1959-Continued$

_	Item and Census year	Ksufman	Lamar	Liberty	Madison	Meta- gorda	Nueces	Orange	Polk	Refugio
	AREA							-		
	Approximate land sreaacres 1960	520,960	579.840	750,720	305,920	729,600	1536,320	227,840	700,160	1493,440
	Land in farms	466,555	496,627	532,575	303,213	727.574	1628,263	95,981	284,155	1498,301
	Drainage projectsnumber 1950	3	8	12	6	19	10	1	2	2
	1950		4	32		26	3	6		,
	Total area in drainage projects 2	2,837	15,531	180,594	10,600	340,524	104,340	208,000	1,969	123,260
	1950		11,652	194,024		227,633	70,090	208,000		123,260
	Area not used for agriculture or not drained acres served 1960					1,500		158,000		
	Net area drained and used for agriculture acres served 1980	2,837	15,531	180,594	10,600	339,024	104,340	50,000	1,969	123,260
1	Drainage established before 1950 acres served 1960	1,037	11,849	149,989		261,979	100,840	50,000	1,356	123,260
10	Area added, 1950-1959 acree served 1960	1,800	3,682	30,605	10,600	77,045	3,500		613	
11	Area served by two or more projects acres served 1980			37,992		8,220	5,300			3,600
										.,
	PROJECTS, 1960, BY TYPE OF ORGANIZATION									
	Drains owned by one landowner number of projects	3	1	8	4	12	3		2	1
18		2,837	2,319	49,134	4,600	27,044	2,000		1,969	3,600
14	Cooperative or mutual drains	•••	4		2	3	5			
15	acres served".		3,368	***	6,000	7,600	6,800			
16	Legally organized public drains		3	4		4	2	1		1
17	acres served"		9,844	169,452		312,600	100,840	50,000		123,260
	PROJECTS, 1960, BY YEAR STARTED									
18	1950-1959 number of projects	2	3	1	6	8	4		1	1
19	acres served ³	1,80	3,682	530	10,600	12,645	5,300		613	3,600
20	Prior to 1950number of projects	1	5	11		11	6	1	1	1
21	acres served ³	1,037	11,849	218,056		334,599	104,340	50,000	1,356	123,260
	DRAINAGE OPERATIONS, 1950-1959									
22	Cost of drainage works and services	3	6	12	6	18	9	1	(5)	(5)
23	dollars	14,848	22,655	531,903	72,500	803,795	150,460	1,200,000	(5)	(5)
24	New drainage works constructed, enlarged, or installed	<i>s</i>	3	9	6	14	5	1	(5)	(5)
25	dollars	8,600	17,593	129,120	69,102	128,055	61,700	360,000	(5)	(5)
26	Open ditchesprojects reporting	3	3	9	6	14	4	1	(5)	(5)
27	length, miles	16.5	37.8	203.4	54.6	78.8	17.7	134.0	(5)	(5)
28	Tile or covered drainsprojects reporting							1		(-)
29	length, miles							0.9		
30	Levees or dikes						1	1	(5)	
31	length, miles						3.5	1.0	(5)	
32	Pumpaprojects reporting	1								
88	number of pumps	1 :								
84	Other (see text)projects reporting									
35	Cost of maintenance, operation, repair, and									
	administrationprojects reporting	3	4	9	2	11	7	1	(5)	(5)
36	dollars	6,248	5,062	402,783	3,398	675,740	88,760	840,000	(5)	(5)

The excess of farm screage over approximate land area is due to the fact that the entire acreage of a farm is tabulated as in the county in which the headquarters is located, even though a part of the farm may be situated in an adjoining county.

Zhand served by two or more projects counted only once.

Jacres served by two projects are included for each project. See text.

Includes projects taken over by enother project prior to 1960. See text.

Included in State total only.

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959 -Continued [See text for comparability of 1960 and 1950 data]

Item and Census year	Robertson	Rockwall	San Patricio	Victoria	Waller	Ward	Washington	Wharton	Willacy	All other counties1
AREA										
Approximate land areaacres 1960	. 558,720	94,080	² 435,200	571,520	324,480	529,280	391,040	² 690,560	380,800	25,620,48
Land in farmsacres 1959	. 392,427	86,703	² 549,114	551,046	287,496	469,531	339,225	2710,574	373,751	22,578,93
Drainage projects	. 9	1	3	8	4	1	1	4	1	
1950	. 1		3	5	6	2		31	7	11
Total area in drainage projects ³ acres served 1960	9,351	766	58,407	165,813	2,920	32,478	900	690,560	2,500	
1950	1,062		58,407	136,123	3,535	37,645		690,560	21,583	123,68
Area not used for agriculture or not drained acres served 1960			1,360			12,478		2,500		
Net area drained and used for agriculture acres served 1960	9,351	766	57,047	165,813	2,920	20,000	900	688,060	2,500	
Drainage established before 1950 acres served 1960	3,737	766	57,047	165,813	1,700	20,000		688,060		
Area added, 1950-1959 acres served 1960	5,614				1,220		900		2,500	
Area served by two or more projects acres served 1960				2,500				14,300		
PROJECTS, 1960, BY TYPE OF ORGANIZATION										
Drains owned by one landowner number of projects	. 7	1		4	3		1	2	1	
acres served ⁴ ,	7,347	766		47,500	2,320		900	13,300	2,500	
Cooperative or mutual drainsnumber of projects	. 2			1	1			1		
acres served ⁴ ,	2,004			17,000	600			1,000		
egally organized public drainsnumber of projects			3	3		1		1		
acres served ⁴ .			57,047	103,813		20,000		688,060		
PROJECTS, 1960, BY YEAR STARTED										
1950-1959 number of projects	6			2	2		1		1	
acres served*.	5,301			2,500	1,220		900		2,500	
Prior to 1950number of projects	3	1	3	6	2	1		4		
acres served ⁴ .	4,050	766	57,047	165,813	1,700	20,000		702,360		
DRAINAGE OPERATIONS, 1950-1959 ⁵										
Cost of drainage works and servicesprojects reporting	9	(6)	3	6	3	1	(⁶)	4	(6)	
dollars	78,943	(6)	129,139	725,890	12,201	54	(6)	442,902	(6)	
lew drainage works constructed, enlarged, or installed	8	(6)		5	3		(°)		(6)	
dollars	49,643	(6)		74,450	11,701		(6)	60,000	(6)	
Open ditches		(6)		74,450	3		(6)	1	(6)	• • • • • • • • • • • • • • • • • • • •
length, miles		(6)		97.8	10.5		(°)	30.0	(6)	•••
Tile or covered drains										•••
						***				•••
length, miles Levees or dikes		***					•••			
				• • •	1				• • • •	
length, miles		• • • •	•••		0.1	• • • •			•••	
Pumpeprojects reporting		•••		•••		•••	•••	• • • •		•••
number of pumps						•••				
Other (see text)projects reporting	1									•••
Cost of maintenance, operation, repair, and	7	(6)	3	5	1	1	(6)	4		
administrationprojects reporting	,									

Includes Atascoss, Bexar, Brown, Castro, Crosby, Dawson, Deaf Smith, Dimmit, El Paso, Conzales, Hale, Hockley, Hudspeth, Lamb, Lampasss, Lubbock, Lynn, McLennan, Mason, Maverick, Menard, Pecos, Randall, Reeves, Start, Swisher, Terrant, Taylor, Wishita, Williamson, and Zapata counties.

"The excess of farm screage over approximate land area is due to the fact that the entire acreage of a farm is tabulated as in the county in which the headquarters is located, even though a part of the farm may be situated in an adjoining county.

"Land served by two or more projects counted only once.

"Arces served by two projects fare included for each project. See text.

"Includes projects taken over by another project prior to 1960. See text.

"Included in State total only."

UTAH 331

State Table 1.-DRAINAGE PROJECTS-NUMBER, AREA, COST, AND WORKS, 1920 TO 1960

[See text for comparability of data]

2-	e text for comparability of d	un ,			
l Com	1960 Census	1950 Census	1940 Census	1930 Census	1920 Census
AREA					
Approximate land area	52,696,960	52,701,440	52,701,440	52,597,760	52,597,760
Land in farms	12,688,518	10,865,165	7,302,007	5,613,101	5,050,410
Drainage projects	9	471	36	NA.	N.A
Total area in drainage projects	68,910	302,158	202,058	156,052	113,823
Area not used for agriculture or not drained	2,000	NA.	NA.	NA.	N.A
Not area drained and used for agriculture	66,910	NA.	¹ 140,148	1109,518	N.A
Preparage established 10 years or more before Census date	66,390	NA.	NA.	NA.	N.
Drainage established within 10 years of Census date	520	NA.	NA.	NA.	N/
Area served by two or more projects		5,292	2,092		
Area served by two or more projects		,,,,,,	2,002		
PROJECTS BY TYPE OF OROANIZATION					
Drains owned by one landowner		24	NA.	NA.	N
acres served		² 4,120	² 12,020	11,200	8,304
Cooperative or mutual drains	1	27			
acres served	1,300	² 16,070			
Legally organized public drainsnumber of projects	8	² 25	NA.	NA.	N/
acres served	65,610	²130,003	² 148,677	144,852	105,519
PROJECTS BY YEAR STARTED		200			
Started 10 years or more before Census date	8	228	NA	NA.	NA
acres served	65,870	² 142,309	199,755	130,488	750
Started within 10 years of Census date	1	28	NA.	NA NA	N.A
acres served	1,040	² 7,884	2,303	25,564	113,073
OPERATIONS, 10-YEAR PERIOD PRECEDING CENSUS DATE					
Cost of drainage works and services projects reporting	5	230	NA.	NA.	NA NA
dollars	558,392	836,973	NA.	NA.	NA NA
New drainage works coestructed, enlarged, or installed	3	313	NA.	NA.	N.A
coet, dollars	350,197	³ 29,181	NA.	NA.	N.A
Open ditches	2	12	NA.	NA NA	NA NA
length, miles	60.9	29	NA.	NA.	N.A
Tile or covered drains. projecte reporting	2	3	NA NA	NA.	N.A
length, miles	3.6	5	NA.	NA.	N.
Levees or dikes			NA.	NA.	N.
iength, miles			NA.	NA NA	N.A
Pumps projects reporting .		NA	NA.	NA.	N/
number of pumps		NA.	NA.	NA.	NJ.
Other (see taxt)		NA NA	NA.	NA.	N/
Cost of maintenance, operation, repair, and administration projects reporting	5	NA NA	NA.	NA NA	N.A
dollars	208,195	807,792	NA.	NA.	NJ.
GOLIATE	200,197	001,175		, ita	
STATUS ON CENSUS DATE					
Capital investmentdollars	NA NA	NA.	4,869,273	4,772,000	1,005,473
Physical works:	NA.	NA.	267.8	304.3	120.3
Öpen ditcheslength, miles		NA NA	1,618.6	1,944.5	599.1
Tile drainslength, miles	NA NA	NA NA	1,618.6	2,0	2,0
Levees and dikeslength, miles	NA	NA (2)			
Pumping units	NA.	(-)			NA.

NA Not available. Hot fully comparable. See text.

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State Table 2.-DRAINAGE

			ed and used 1ture, 1960	Ares by period drainage was established						
Size of project (Based on area of agricultural land in project)	Number of projects	Total	Served by two	Befor	re 1950	Ares sdded 1950-1959				
		(scres)	or more projects (scres)	Projects reporting	Acres	Projects reporting	Acres			
All projects.	9	66,910		9	66,390	1	52			
500 to 999 acres										
1,000 to 1,999 acres	6	8,110		6	7,590	1	52			
2,000 to 4,999 acres	1	2,800		1	2,800					
5,000 to 9,999 acres										
10,000 to 19,999 acres	1	12,000		1	12,000					
20,000 to 49,999 acres	1	44,000		1	44,000					
50,000 to 99,999 acres										
100,000 or more acres										

State Table 3.-DRAINAGE PROJECTS, 1960,

		Area draine for agricul		Area	by period drains	ge was establishe	d
Type of organization	Number of projects			Before	1950	Ares added 1950-1959	
	210,000	(scres)	or more projects (acres)	Projects reporting	Acres	Projects reporting	Acres
All projects.	9	66,910		9	66,390	1	52
Drains owned by one landowner							
Cooperative or mutual drains	1	1,300		1	1,300		
Legally organized public drains	8	65,610		8	65,090	1	5

State Table 4.-DRAINAGE PROJECTS, 1960,

	*	Ares draine for agricul		Are	s by period drain	riod drainage was established			
Year of organization	Number of projects		Served by two	Befor	e 1950	Ares added 1950-1959			
	projects	Total (scres)	or more projects (acres)	Frojects Acres Projects reporting		Acres			
All projects.	9	66,910		9	66,390	1			
1950-1959	1	1,040		1	520	1	:		
Prior to 1950	8	65,870		8	65,870				

PROJECTS, 1960, BY SIZE

		0-1959	nstalled, 195	nlarged, or i	constructed, e	New works			1950-1959	and services,	rainage works	Cost of d
Other,	rps	Pum	nd dikes	Levers a	ered drains	Tile or cov	itches	Open d	works	For new	tal	To
projects reporting	Number	Frojects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Frojects reporting	Dollars	Projects reporting	Dollars	Projects reporting
					3.6	2	60.9	2	350,197	3	558,392	5
					3.6	2	6.4	1	269,197	2	272,460	2
											2,176	1
											130,463	1
							54.5	1	81,000	1	153,293	1

BY TYPE OF ORGANIZATION

Cost of d	rainage works	and services,	1950-1959			New works	constructed, e	enlarged, or	installed, 195	50-1959		
To	Total For new works			Total For new works Open ditches Ti			Tile or covered drains Levees and dikes				Fump	Other,
Projects reporting	Dollars	Projects reporting	Dollars	Frojects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number	projects reporting
5	558,392	3	350,197	2	60.9	2	3.6					
5	558,392	3	350,197	2	60.9	2	3.6					

BY YEAR OF ORGANIZATION

Cost of d	rainage works	and services,	1950-1959			New works	constructed, en	mlarged, or i	nstalled, 195	0-1959			
Total		For nev	w works	Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other,	
Projects reporting	Dollars	Projects reporting	Dollars	Frojects reporting	Length (miles)	Projects reporting	Length (miles)	Frojects reporting	Length (miles)	Projects reporting	Number	projects reporting	
5	558,392	3	350,197	2	60.9	2	3.6						
1	270,000	1	268,000	1	6.4	1	3,4						
4	288,392	2	82,197	1	54.5	1	0.2						

County Table 1. - DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

	Item and Census year	The State	Box Elder	Cache	Davis	Millard	Piute	Sevier	All other counties1
	AREA								
1	Approximate land area	52,696,960	3,580,160	752,000	² 171,520	4,254,720	481,920	1,236,480	31,799,040
2	Land in farmsacres 1959	12,688,518	1,698,855	428,790	2277,991	593,390	79,093	240,199	7,451,542
3	Drainage projectsnumber 1960	9	3	1	2	1	1	1	
4	1950	471	45	45	62	10	4	33	275
5	Total area in drainage projects 3	68,910	16,100	1,000	2,570	46,000	1,800	1,440	
6	1950	302,158	46,250	26,064	16,683	116,344	2,280	21,504	73,033
7	Area not used for agriculture or not drained acres served 1980	2,000				2,000			
8	Net area drained and used for agriculture acres served 1960	66,910	16,100	1,000	2,570	44,000	1,800	1,440	
9	Drainage established before 1950 acres served 1960	66,390	16,100	1,000	2,050	44,000	1,800	1,440	
10	Area edded, 1950-1959 acres served 1960	520		•••	520				
11	Area served by two or more projects acres served 1960								
	PROJECTS, 1960, BY TYPE OF ORGANIZATION								
12	Drains owned by one landowner number of projects								
13	acres served 4								
14	Cooperative or mutual drainsnumber of projects	1	1						
15	acres served 4	1,300	1,300						
16	Legally organized public drains number of projects	8	2	1	2	1	1	1	
17	acres served 4	65,610	14,800	1,000	2,570	44,000	-1,800	1,440	• • •
	PROJECTS, 1960, BY YEAR STARTED								
18	1950-1959 number of projects	1			1				
19	acres served	1,040			1,040				
20	Prior to 1950 number of projects	8	3	1	1	1	1	1	
21	acres served	65,870	16,100	1,000	1,530	44,000	1,800	1,440	
	DRAINAGE OPERATIONS, 1950-1959 ⁵								
22	Cost of drainage works and servicesprojects reporting	5	2	1	1	1		·	
23	dollars	558,392	132,639	2,460	270,000	153,293			
24	New drainage works constructed, enlarged, or installed	3		1	1	1			
25	dollars	350,197		1,197	268,000	81,000			
26	Open ditchesprojects reporting	2			1	1			
27	length, miles	60.9			6.4	54.5			
26	Tile or covered drainsprojects reporting	2		1	1				
29	length, miles	3.6		0.2	3.4				
30	Levees or dikesprojects reporting								
31	length, miles								
32	Pumpeprojects reporting								
33	number of pumps								
34	Other (see text)						•…		
35	Cost of maintenance, operation, repair, and administrationprojects reporting	5	2	1	1	1			
36	dollars	208,195	132,639	1,263	2,000	72,293			

Includes Carbon, Duchesne, Emery, Garfield, Grand, Jush, Kane, Rich, Salt Lake, Sampete, Summit, Tocele, Wintah, Utah, Washington, Wayne, and Weber counties.

The excess of farm screage over approximate land area is due to the fact that the entire acreage of a farm is tabulated as in the county in which the headquarters is located, even though a part of the farm may be situated in an adjoining county.

Jand served by two or more projects counted only cance.

Acres served by two projects are included for each project. See text.

Includes projects taken over by another project prior to 1960. See text.

VIRGINIA 335

State Table 1.-DRAINAGE PROJECTS-NUMBER, AREA, COST, AND WORKS, 1920 TO 1960

[See text for comparability of data]

[500	text for comparability of di	Ma			
I Lean	1960 Census	1950 Census	1940 Census	1930 Census	1920 Census
AREA					
Approximate land area	25,496,320	25,531,520	25,535,360	25,767,680	25,767,680
Land in farms	13,125,802	15,572,295	16,444,907	16,728,620	18,561,11.
Drainage projectsnumber	66	30	2	NA	
Total area in drainage projects	98,478	45,460	15,714	15,042	
Area not used for agriculture or not drained	5,700	NA .	NA	NA NA	
Net area drained and used for agriculture	92,778	NA	115,714	15,704	
Drainage established 10 years or more before Census date	807ر 0ء	NA.	NA.	NA.	
Drainage established within 10 years of Census date	51,971	NA.	NA.	NA.	
Area served by two or more projectsacres served	9,198				
PROJECTS BY TYPE OF ORGANIZATION					
Drains owned by one landowner	5			NA.	
		***	•••		
acros served	7,286	28	•••	3,304	**
acres served.	82,289	29,739			••
Legally organized public drains	2	2	2	NA.	
scres served	12,401	15,721	15,714	11,738	
actes series	22,7101	27,122	25,724	11,750	
PROJECTS BY YEAR STARTED					
Started 10 years or more before Census date	28	3	2	NA.	•••
acres served	38,259	19,521	15,714	3,304	
Started within 10 years of Census date	38	27		NA	
acres sened	63,717	25,939	•••	11,738	
OPERATIONS, 10-YEAR PERIOD PRECEDING CENSUS DATE					
Cost of drainage works and services projects reporting	54	28	NA.	NA.	
dollars	401,765	111,394	NA.	An	
New dramage works constructed, enlarged, or installed projects reporting	22	227	NA.	NA.	
cost, dollars	215,992	² 95,794	NA.	NA.	
Open ditches	22	27	NA	NA.	
length, miles	45.2	59	NA	NA.	
Tile or covered drains			NA	NA.	
length, miles			NA	NA.	
Levees or dikes		***	NA.	NA.	
length, miles			NA	NA.	
Pumps projects reporting		NA.	NA	NA.	
number of pumps		NA	NA	NA.	
Other (see text) projects reporting	2	NA.	NA.	NA.	
Cost of maintenance, operation, repair, and administration	46	NA	NA.	NA.	
dollars	185,773	15,600	NA.	NA.	
CTATILL ON CONCESS DUCTO					
STATUS ON CENSUS DATE		N/ A	201 200	2/1 /00	
Capital investment	NA.	NA.	201,300	241,608	• • • • • • • • • • • • • • • • • • • •
Physical works: Open ditches	NA	AA	46.7	40.0	
Tile drains length, miles	NA.	NA			
Levees and dikeslength, miles	NA	NA			
Pumping units	NA.				

NA Not available. Not fully comparable. See text. ²Cost of new works for lands not previously drained.

State Table 2.-DRAINAGE

			ed and used lture, 1960	Area by period drainage was established				
Size of project (Based on area of agricultural land in project)	Number of projects Total		Served by two	Befor	re 1950	Area added 1950-1959		
		(acres)	or more projects (acres)	Projects reporting	Acres	Projects reporting	Acres	
All projects.	66	101,976	18,396	36	45,479	37	56,49	
500 to 999 acres	43	29,435	7,248	22	15,496	22	13,93	
1,000 to 1,999 acres	11	14,792	3,493	8	9,217	5	5,57	
2,000 to 4,999 acres	7	21,948	565	3	5,953	6	15,99	
5,000 to 9,999 acres	4	25,553	7,090	2	4,565	4	20,98	
10,000 to 19,999 acres	1	10,248		1	10,248			
20,000 to 49,999 acres								
50,000 to 99,999 acres								
100,000 or more acres								

State Table 3.-DRAINAGE PROJECTS, 1960,

		Area draine for agricul		Area by period drainage was established				
Type of organization	Number of projects	Total	Served by two or more projects (acres)	Before	1950	Area added 1950-1959		
		(scres)		Projects reporting	Acres	Projects reporting	Acres	
All projects.	6υ	101,976	18,396	36	45,479	37	56,49	
Drains owned by one landowner	5	7,286		5	6,536	1	75	
Cooperative or mutual drains	59	82,489	18,396	29	26,542	36	55,74	
Legally organized public drains	2	12,401		2	12,401			

State Table 4.-DRAINAGE PROJECTS, 1960,

			Area by period drainage was established				
Number of		Served by two	Before 1950		Area added 1950-1959		
projects	Total (acres)	or more projects (acres)	Projects reporting	Acres	Projects reporting	Acres	
00	101,976	18,396	36	45,479	37	56,49	
38	63,717	13,924	8	8,553	35	55,16	
28	38,259	4,472	28	30,920	2	1,33	
	projects	Cor agricul	rojects Total (acres) or more projects (acres) 101,976 18,396 38 63,717 13,924	Number of projects Total (acres) Served by two Befor more projects (acres) Total (acre	Number of projects Total (acres) Served by two care (acres) Total (acr	Number of projects Total (acres) 260 Area by period dreinage was establish	

PROJECTS, 1960, BY SIZE

		New works constructed, enlarged, or installed, 1950-1959							1950-1959	and services,	rainage works	Cost of d	
	Other.	Pumps		nd dikes	Levees and dikes		Tile or covered drains		Open d	works	For new	al	To
	projects reporting	Number	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting
2								45.2	22	215,992	22	401,765	54
1								8.5	11	33,044	11	107,299	36
1								5.5	3	36,710	3	60,375	8
								9.0	4	36,288	4	64,191	6
								22.2	4	109,950	4	169,900	4

BY TYPE OF ORGANIZATION

0050 01 0	rainage works	and services,	1,70-1,739			New works constructed, enlarged, or installed, 1950-1959						
To	tal	For new	works	Open d	itches	Tile or cove	red drains	Levees	nd dikes	Pump	s	Other,
Projects reporting	Dollars	Projects reporting	Dollars	Frojects reporting	Length (miles)	Frojects reporting	Length (miles)	Frojects reporting	Length (miles)	Frojects reporting	Number	projects reporting
54	401,765	22	215,992	22	45.2							
5	17,950											
49	383,815	22	215,992	22	45.2							

BY YEAR OF ORGANIZATION

new works	Open d		1						nstructed, enlarged, or installed, 1950-1959					
		itches	Tile or cov	ered drains	Levees a	nd dikes	Pur	mps	Other,	1				
	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Frojects reporting	Length (miles)	Projects reporting	Number	projects reporting					
22 215,992	22	45.2							2					
22 215,992	22	45.2							2	1				
	22 215,992 22 215,992	22 215,992 22 22 215,992 22	Dollars reporting (miles)	Dollars reporting (miles) reporting	Dollars reporting (miles) reporting (miles)	Ing Dollars reporting (miles) reporting (miles) reporting 22 215,992 22 45.2 23 215,992 32 45.2	Ing Dollars reporting (miles) reporting (miles) reporting (miles) 22 215,992 22 45.2 23 215,992 32 45.2	Ing Dollars reporting (miles) reporting (miles) reporting (miles) reporting 22 215,992 22 45.2	Dollars reporting (miles) reporting	Dollars Projects Length Length				

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

_		[ice wa	for comparability of 1	300 and 1900 Gitta				
	Item and Census year	The State	Accomack	Halifax	Norfolk	Northampton	Princess Anne	Southempton
	AREA							
1	Approximate land areaacres 1960	25,496,320	300,800	513,280	263,680	144,640	163,200	388,480
2	Land in farmsacres 1959	13,125,802	112,191	402,534	75,775	67,066	60,383	260,793
3	Drainage projectsnumber 1960	66	1	1	15	2	48	2
4	1950	30			9		21	
5	Total area in drainage projects 1	98,478	700	500	39,354	1,950	52,314	3,660
6	1950	45,460			24,477		20,983	ĺ
7	Area not used for agriculture or not drained acres served 1960	5,700					5,700	
8	Net area drained and used for agriculture acres served 1960	92,778	700	500	39,354	1,950	46,614	3,660
9	Drainage established before 1950 acres served 1960	40,807			20,787		20,020	
10	Area added, 1950-1959 acres served 1960	51,971	700	500	18,567	1,950	26,594	3,660
11	Area served by two or more projects acres served 1960	9,198				·	9,198	
	DECEMBER 4444 DV MIND OF ORGANIZATION							
	PROJECTS, 1960, BY TYPE OF ORGANIZATION							
	Drains owned by one landowner number of projects	5	***	•••	5	•••	•••	
13	acres served ²	7,286			7,286	•••	***	
	Cooperative or mutual drainsnumber of projects	59	1	1	8	2	47	2
15	acres served ²	82,289	700	500	20,037	1,950	55,442	3,660
16	Legally organized public drainsnumber of projects acres served ²	2			2		1	•••
17	acres served	12,401			12,031		370	•••
	PROJECTS, 1980, BY YEAR STARTED							
16	1950-1959 number of projects	38	1	1	5	2	28	2
19	acres served ²	63,717	700	500	17,234	1,950	39,673	3,660
20	Prior to 1950number of projects	28			10		20	
21	acres served ² .	38,259			22,120		16,139	
	DRAINAGE OPERATIONS, 1950-1959 ⁸							
22	Cost of drainage works and services projects reporting	54	1	1	12	2	37	2
23	dollars	401,765	3,742	2,100	63,854	50,362	255,719	25,988
24	New drainage works constructed, enlarged,					ŕ		
	or installedprojects reporting	22	1	1	5	2	12	2
25	dollars	215,992	3,742	1,000	40,655	50,362	96,245	23,988
26	Open ditchesprojects reporting	22	1	1	5	2	12	2
27	length, miles	45.2	1.6	0.6	22.6	6.3	8.6	5.5
26	Tile or covered drainsprojects reporting	•••				• • •		
29	length, miles	•••	•••			•••		
30	Levees or dikes	•••						
31	length, miles	•••	•••			•••		•••
32	Pumpeprojects reporting	•••						
33	number of pumps							
34	Other (see text)	2		•••		2	•••	
35	Cost of maintenance, operation, repair, and administrationprojects reporting	46		1	8		37	1
36	dollurs	185,773		1,100	23,199		159,474	2,000

Land served by two or mare projects counted only once.

Acres served by two projects are included for each project. See text.

Includes projects taken over by another project prior to 1960. See text.

State Table 1.-DRAINAGE PROJECTS-NUMBER, AREA, COST, AND WORKS, 1920 TO 1960

[See text for comparability of data]

[Se	e text for comparability of d	ntu			
tten:	1960 Census	1950 Census	1940 Census	1930 Census	1920 Census
AREA					
Approximate land area	42,693,760	42,743,040	42,865,280	42,775,040	42,775,04
Land in farms acres	18,716,972	17,369,245	15,181,815	13,533,778	13,244,72
Drainage projects	122	533	165	NA NA	13,244,12
Total area in drainage projects	254,482	431,613	405,709	367,242	94,92
Area not used for agriculture or not drained	13,300	NA.	NA.	NA.	N N
Net area drained and used for agricultureacres served	241,182	NA.	1380,964	1351,898	N.
Drainage established 10 years or more before Census date	227,696	NA.	NA.	NA.	N N
Drainage established within 10 years of Census date	13,486	NA.	NA NA	NA.	N
Area served by two or more projects	1,300	30,907	27,631	27,609	10.55
DIO FORM DI WATE OF ORGANIZA INVOLU					
PROJECTS BY TYPE OF ORGANIZATION					
Drains owned by one landowner	2	21	NA.	NA.	N.
acres served	1,375	² 1,280	² 1,280	² 1,200	1,100
Cooperative or mutual drainsnumber of projects	20	29	• • • •		
scres served	20,374	² 8,205			
egally organized public drains	100	2130	NA .	NA.	N.
acres served	220,733	² 263,423	² 264,039	² 275,642	93,82
PROJECTS BY YEAR STARTED					
Started 10 years or more before Census datenumber of projects	108	2124	NA.	NA.	N/
acres served	223,895	² 248,497	390,883	288,599	² 43,166
Started within 10 years of Census datenumber of projects	14	216	NA.	NA.	N ₂
actes served	18,587	224,411	14,826	78,643	² 45,256
OPEN TRANS AS AT A PROPER PROPERTY OF THE PROP					
OPERATIONS, 10-YEAR PERIOD PRECEDING CENSUS DATE	114	² 131			
Cost of drainage works and services	4,404,324		NA.	N.A.	NA
deliars Vew drainage works constructed, enlarged, or installed	4,404,324	1,541,318	NA	NA.	NA
		_	NA.	NA	N/
cost, dollars	1,304,272	³ 203,873	NA	N.A.	N/
Open ditches	1	23	NA	NA	N
Tile or covered drains	97.8	55	N.A.	NA.	NA NA
	6	4	NA.	NA NA	N.F
length, miles Levees or dikes	8.5	4	NA NA	NA	N/
length, miles	30.7	4	NA NA	NA	N/
Pumps projects reporting	13	NA NA		NA	NA
number of pumps	17	NA NA	NA NA	NA.	N.
Other (see Lext)	18	NA NA	NA.	NA.	NA NA
Cost of maintenance, operation, repair, and administration	108	NA NA	NA.	NA NA	NA NA
dollars	3,100,052	1,337,445	NA NA	NA NA	NJ.
	3,100,032	1,337,443	165	, ide	10
STATUS ON CENSUS DATE					
Capital investment	NA NA	NA :	5,332,842	4,637,576	1,397,419
hysical works: Open ditcheslength, miles	NA.	NA.	885.0	746.7	162.4
Tile drains length, miles	NA NA	NA NA	179.0	199.2	83.0
Levees and dikes. length, miles.	NA.	NA NA	72.4	78.8	
Pumping unitsnumber of anits	NA.	²43 ;	24	18	
	iuk	***	<4	19	

NA Not available.

NA Not available.

NA Not available. See text.

NA Not fully comparable. See text.

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State Table 2.-DRAINAGE

			ed and used lture, 1960	Area by period drainage was established				
Size of project (Besed on ares of agricultural land in project)	Number of projects	Total	Served by two	Befor	e 1950	Area added 1950-1959		
		(scres)	or more projects (scres)	Projects reporting	Acres	Projects reporting	Acres	
All projects	122	242,482	2,600	112	228,996	17	13,486	
500 to 999 scres	50	34,970		43	29,595	10	5,37	
1,000 to 1,999 acres	35	50,138	1,300	33	47,208	4	2,930	
2,000 to 4,999 acres	25	73,502		24	69,042	2	4,46	
5,000 to 9,999 acres	11	72,372	1,300	11	71,651	1	72	
10,000 to 19,999 acres	1	11,500		1	11,500			
20,000 to 49,999 acres								
50,000 to 99,999 acres								
100,000 or more acres								

 $^{^{1}}$ Includes projects taken over by another project prior to 1960. See text.

State Table 3.-DRAINAGE PROJECTS, 1960,

			Area draine for agricul		Area by period drainage was established				
	Type of organization	Number of projects	Total	Served by two	Befor	e 1950	Ares added	1950-1959	
		1	(acres)	projects (acres)	Projects reporting	Acres	Projects reporting	Acres	
1	All projects	122	242,482	2,600	112	228,996	17	13,486	
2	Drains owned by one landowner.	2	1,375		1	675	ı	700	
9	Cooperative or mutual draine	20	20,374		15	15,674	7	4,700	
4	Legally organized public drains	100	220,733	2,600	96	212,647	9	8,086	

Includes projects taken over by another project prior to 1960. See text.

State Table 4.-DRAINAGE PROJECTS, 1960,

		Area drained for agricul		Are	by period drains	age was establish	ed
Year of organization	Number of		Served by two	Before	e 1950	Area added 1950-1959	
	projects	Total (acres)	or more projects (acres)	Projects reporting	Acres	Projects reporting	Acres
All projects.	122	242,482	2,600	112	228,996	17	13,4
1950-1959	14	18,587	1,300	4	7,119	12	11,4
Prior to 1950	108	223,895	1,300	108	221,877	5	2,0

PROJECTS, 1960, BY SIZE

Tot	tal	For new	works	Open d	itches	Tile or cove	ered druins	Levees s	nd dikes	Fram	pe	Other.
rojects eporting	Dollars	Projects reporting	Dollars	Frojects reporting	Length (miles)	Frojects reporting	Length (miles)	Frojects reporting	Length (miles)	Frojects reporting	Number	projects reporting
114	4,404,324	49	1,304,272	38	97.8	6	8.5	11	30.7	13	17	16
44	619,899	17	269,851	14	19.2	3	2.4	6	10.9	4	6	
31	897,815	14	402,215	9	22.8	1	4.9	3	1.3	3	3	
25	1,235,651	12	524,853	10	30.6	1	0.2	2	18.5	5	7	
113	1,538,187	5	80,353	4	24.7					1	1	
1	112,772	1	27,000	1	0.5	1	1.0					
				!								

BY TYPE OF ORGANIZATION

Cost of d	rsinage works	and services,	1950-1959			New works	New works constructed, enlarged, or installed, 1950-1959						
To	tal	For new	works	Open d	itches	Tile or cove	red drains	Levees a	nd dikes	Fump	is.	Other,	
Projects reporting	Dollars	Frojects reporting	Dollars	Frojects reporting	Length (miles)	Frojects reporting	Length (miles)	Projects reporting	Length (miles)	Frojects reporting	Number	projects reporting	
114	4,404,324	49	1,304,272	38	97.8	6	8.5	11	30.7	13	17	18	
13	205,000	3	125,000	3	5.2			3	13.1	2	3	1	
18	191,085	12	93,911	11	16.9	1	0.1	3	3.5	1	1	6	
93	4,008,239	34	1,085,361	24	75.7	5	8.4	5	14.1	10	13	11	

BY YEAR OF ORGANIZATION

Cost of d	drsinage works	and services,	1950-1959			New works	constructed, e	nlarged, or i	nstalled, 195	0-1959			
To				Open d	itches	Tile or cov	ered drains	Levees a	Levees and dikes		Fumps		
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Frojects reporting	Length (miles)	Frojects reporting	Number	projects reporting	
114	4,404,324	49	1,304,272	38	97.8	6	8.5	11	30.7	13	17	18	
14	680,014	13	585,334	11	33.9	4	7.3	4	22.5	4	4	5	
100	3,724,310	36	718,938	27	63.9	2	1.2	7	8.2	9	13	13	
												L	

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

AREA							Jefferson
Approximate land areaacres 1960	42,693,760	403,200	731,520	1,721,600	1,219,200	131,840	1,159,680
Land in farms	18,716,972	188,479	80,176	1,075,642	99,529	38,702	35,123
Orannage projects	1.22	11	5	1	2	7	2
1950	533	22	10	2	6	5 1	6
Fotal area in drainage projects 1	254,482	17,960	25,482	1,280	2,336	7,245	6,990
1950	431,613		10,269				7,090
Area not used for agriculture or not drained acres served 1960	13,300		10,000	·		·	ĺ
Net area drained and used for agriculture acres served 1960	241,182	17,960	15,482	1,280	2,336	7,245	6,990
Drainage established before 1950 acres served 1960	227,696	11,425	15,482	1,280	2,336	7,245	6,990
Area added, 1950-1959 acres served 1960	13,486	6,535					
Area served by two or more projects acres served 1960	1,300		1,300			•••	
PROJECTS, 1980, BY TYPE OF ORGANIZATION							
Prains owned by one landowner number of projects	2	1					
acres served ²	1,375	675					
Cooperative or mutual drainsnumber of projects	20	2		1			1
acres served ²	20,374	1,850		1,280			960
egally organized public drainsnumber of projects	100	8	5	• • • •	2	7	1
acres served 2	220,733	15,435	16,782		2,336	7,245	6,030
PROJECTS, 1960, BY YEAR STARTED							
950-1959	14	5	1				
acres served ²	18,587	6,535	1,300				
Prior to 1950number of projects	108	6	4	1	2	7	2
acres served ²	223,895	11,425	15,482	1,280	2,336	7,245	6,990
DRAINAGE OPERATIONS, 1950-1959							
Cost of drainage works and servicesprojects reporting	114	12	5	1	2	6	(4)
dollars	4,404,324	532,821	1,322,171	12,000	8,416	26,427	(4)
lew drainage works constructed, enlarged, or installedprojects reporting	49	10	2			2	
dollars	1,304,272	448,008	72,368			10,633	
Open ditchesprojects rejecting	38	9	1			2	
length, miles	97.8	21.6	9.0			2.5	
Tile or covered drains	6	3					
length, miles	8.5	2.4					
Levees or dikesprojects reporting	11	5					
length, miles	30.7	28.1	***				
Pumpsprojects reporting	13	4	1			1	
number of pumps	17	5	1			1	
Other (see text) projects reporting	18	5					
Cost of maintenance, operation, repair, and administration	108	12	5	1	2	6	(4)
dollars			1,249,803	_			(4)
	Area not used for agraculture or not drained acres served 1960 Not area drained and used for agraculture acres served 1960 Drainage established before 1950 acres served 1960 Area added, 1950-1959 acres served 1960 Area served by two or more projects acres served 1960 PROJECTS, 1960, BY TYPE OF ORGANIZATION Praina owned by one landowner number of projects acres served? Cooperative or motianl drains number of projects acres served? Acres served? number of projects acres served? PROJECTS, 1960, BY YEAR STARTED number of projects acres served? Prior to 1950 number of projects acres served? DRAINAGE OPERATIONS, 1950-1959 acres served? DRAINAGE OPERATIONS, 1950-1959 dollars dollars dollars dollars dollars dollars dollars dollars dollars dollars dollars dollars test the projects reporting dollars length, miles length, miles length, miles projects reporting length, miles projects reporting length, miles projects reporting length, miles projects reporting length, miles projects reporting length, miles projects reporting length, miles projects reporting length, miles projects reporting	Area not used for agriculture or not drained acres served 1980 13,300 Not area drained and used for agriculture acres served 1980 241,182 Drainage established before 1920 acres served 1980 13,486 Area added, 1950-1959 acres served 1980 1,300 FROJECTS, 1980, BY TYPE OF ORGANIZATION Praina owned by one landowner number of projects 20 acres served 2 20,374 acres served 2 20,374 acres served 2 20,374 acres served 2 220,773 PROJECTS, 1980, BY YEAR STARTED 1500-1959 number of projects 14 acres served 2 220,773 PROJECTS, 1980, BY YEAR STARTED 1500-1959 number of projects 14 acres served 2 18,587 Prior to 1950 number of projects 14 acres served 2 18,587 DRAINAGE OPERATIONS, 1950-1953 108 DRAINAGE OPERATIONS, 1950-1953 104 Acres served 2 14,404,324 Acres served 3 14,404,324 Acres served 3 15,104,105 Tile or covered drains projects reporting 49 dollars 4,404,324 Acres served 3 13,04,272 Open ditches projects reporting 49 Tile or covered drains projects reporting 49 Tile or covered drains projects reporting 49 Leves or dikes projects reporting 49 Leves or dikes projects reporting 6 Length, miles 8 8 8 11 Pumps projects reporting 11 Annuber of pumps 10 Other (see text) projects reporting 12 Other (see text) projects reporting 13 Annuber of pumps 17 Other (see text) projects reporting 13 Annuber of pumps 17 Other (see text) projects reporting 18 Soci of maintenance, operation, repair, and administration projects reporting 108	Area not used for agriculture or not drained acres served 1960 13,300 Not area drained and used for agriculture acres served 1960 221,182 17,960 Drainage established before 1950 acres served 1960 13,486 6,535 Area added, 1950-1959 acres served 1960 1,300 PROJECTS, 1960, BY TYPE OF ORGANIZATION Draina owned by one landowner number of projects 20 2 20,374 1,850 Exceptive or mutual drains number of projects 20 2 20,374 1,850 20,373 1,850 20,374 1,850 20,373 1,850 20,374 1,850 20,373 1,850 20,373 1,850 20,374 1,850 20,373 1,850 20,374 1,850 20,373 1,850	Area not used for agriculture or not drained acress served 1960	Area not used for agriculture or not drained acres served 1860 11,300 10,000 10,000 10,000 10,000 12,280	Area not used for appreciative or not drained acres served 1910. Not area drained and used for appreciate acres served 1960. Parage established before 1950. acres served 1960. Parage established before 1950. acres served 1960. Area served 1960. 11,425 12,425 12,420 1,280 2,336 Area served 1960. acres served 1960. Area served 1960. 11,426 6,535 Area served 1960. 11,300 11,300 PROJECTS, 1960, BY TYPE OF ORGANIZATION PROJECTS, 1960, BY TYPE OF ORGANIZATION Datin owned by one landewarer anaber of projects. 2 1 acres served 2 20,374 1,850 1,280 1,280 coperative or mutual drains number of projects 100 8 5 2 acres served 2 20,374 1,850 1,280 1,280 1,280 2,336 PROJECTS, 1960, BY TYPE STATED BIBO-INFO number of projects 100 8 5 2 2,336	Area not used for agreealture or not draused area served 1900 13,300 24,142 17,960 13,462 1,280 2,336 7,245 Drausage established before 1900 acres served 1900 227,666 11,425 15,462 1,280 2,336 7,245 Area sided, 150-1999 acres served 1900 13,466 6,535

Land served by two or more projects counted only once.

Acres served by two projects are included for each project. See text.

Includes projects taken over by another project prior to 1960. See text.

Included in State total only.

County Table 1. ~DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959 [See text for comparability of 1960 and 1950 data]

_		1	i or comparability of 1					· · · · · · · · · · · · · · · · · · ·
	Item and Census year	King	Klickitat	Lewis	Pacific	Pierce	San Juan	Skagit
	AREA							
1	Approximate land area	1,365,760	1,219,200	1,566,080	592,000	1,072,640	110,080	1,110,400
2	Land in farmsacres 1959	114,719	960,614	255,012	53,348	153,363	45,707	141,77
3	Drainage projectsnumber 1980	8	1	6	9	8	3	1-
4	1950	54	4	20	13	58	2	19
5	Total area in drainage projects ¹ ncres served 1960	17,837	8,234	8,629	11,600	10,036	2,775	51,70
6	1950	19,064	10,954	8,818	4,586	10,771	2,275	46,80
7	Area not used for agriculture or not drained acres served 1960	2,700			600			
8	Not area drained and used for agriculture acres served 1960	15,137	8,234	8,629	11,000	10,036	2,775	51,70
9	Drainage established before 1950 acres served 1960	15,137	8,234	8,629	9,600	10,036	2,275	50,77
10	Area added, 1950-1959 acres served 1960				1,400		500	928
11	Area served by two or more projects acres served 1960		***	***	•••			
	PROJECTS, 1960, BY TYPE OF ORGANIZATION							
12	Drains owned by one landowner number of projects				1			
13	acres served ²				700			
14	Cooperative or mutual drainsnumber of projects			1	6		1	:
15	acres served ²			809	6,500		500	1,100
16	Legally organized public drains number of projects	8	1	5	2	8	. 2	1:
17	acres served ²	15,137	8,234	7,820	3,800	10,036	2,275	50,60
	PROJECTS, 1960, BY YEAR STARTED							
18	1950-1959 number of projects				2		1	1
19	actes served ²				1,400		500	636
20	Prior to 1950number of projects	8	1	6	7	8	2	1.
21	acres served ²	15,137	8,234	8,629	9,600	10,036	2,275	51,07
	DRAINAGE OPERATIONS, 1950-1959 ³							
22	Cost of drainage works and servicesprojects reporting	8	1	4	9	8	(4)	14
23	dollars	154,777	10,100	17,943	103,992	93,546	(4)	930,827
24	New drainage works constructed, enlarged, or installed	1	1		5		(4)	13
25	dollars	2,000	3,793		16,200		(4)	114,176
26	Open ditches	1	1		. 5		(4)	. 8
27	length, miles	0.2	22.5		5.5		(4)	9.5
28	Tile or covered drainsprojects reporting							1
29	length, mules							1.0
30	Levens or dikesprojects reporting				1			
31	length, miles				0.8			0.1
32	Pumpsprojects reporting							
38	number of pumps							
84	Other (see text)				2			
35	Cost of maintenance, operation, repair, and							
	administrationprojects reporting	8	1	4	7	8		14
36	dollars	152,777	6,307	17,943	87,792	93,546		816,65

¹Land served by two or more projects counted only once.

²Acres served by two projects are included for each project. See text.

³Includes projects taken over by another project prior to 1960. See text.

⁴Included in State total only.

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

	Item and Census year	Snohomish	Spokane	Stevens	Thurston	Wahki akum	Whatcom	Yakima	All other counties ¹
	AREA								
1	Approximate land areascres 1960	1,344,000	1,128,320	1,591,040	458,880	172,160	1,365,760	2,734,720	16,667,520
2	Land in farmsacres 1959	148,604	822,008	803,776	142,170	26,299	185,045	1,884,694	8,684,990
3	Drainage projectsnumber 1960	14	1	2	5	4	20	1	
4	1950	23	4	13	6	3	58	90	123
5	Total area in drainage projects 2 acres served 1960	25,017	525	2,840	6,539	8,126	38,297	1,032	
6	1950	20,783	563	3,587	.3,285	7,169	33,774	186,806	35,869
7	Area not used for agriculture or not drained acres served 1960								
6	Net area drained and used for agriculture scres served 1960	25,017	525	2,840	6,539	8,126	38,297	1,032	
9	Drainage established before 1950 acres served 1960	25,017	525	2,540	6,539	8,126	35,506		
0	Area added, 1950-1959 acres served 1960			300			2,791	1,032	
1	Area served by two or more projects acres served $1960\ldots$	• • •						•••	•••
	PROJECTS, 1980, BY TYPE OF ORGANIZATION								
2	Drains owned by one landowner number of projects								
.3	acres served 3								
4	Cooperative or mutual drainsnumber of projects	1 :		2		1	3		
15	acres served ³ .	750		2,840		1,100	2,685		
6	Legally organized public drains number of projects	13	1		5	3	17	1	
7	acres served 3	24,267	525		6,539	7,026	35,612	1,032	
	PROJECTS, 1960, BY YEAR STARTED								
в	1950-1959number of projects				1		2	1	
9	acres served 3				800		6,390	1,032	
0	Prior to 1950 number of projects	14	1	2	4	4	18		
1	acres served ³ .	25,017	525	2,840	5,739	8,126	31,907		
	DRAINAGE OPERATIONS, 1950-1959 4								
2	Cost of dramage works and servicesprojects reporting	15		(5)	5	4	16	1	
3	dollars	378,043		(5)	24,229	370,369	157,560	238,590	
4	New drainage works constructed, enlarged, or installed	3		(5)		3	6	1	
5	dollars	18,500		(5)		291,369	82,872	238,590	
6	Open ditches projects reporting	2		(5)		2	5		
17	length, miles	1.4		(5)		8.5	13.1		
8	Tile or covered drains						1	1	
9	length, miles						0.2	4.9	
0	Levees or dikesprojects reporting	2		(5)					•••
1	length, mules	0.6		(5)					
2	Pumpsprojects reporting					2			
3	number of pumps					4			
4	Other (see text)projects reporting	1		***		3	2		
15	Cost of maintenance, operation, repair, and administration	15		(5)	5	3	15		
36	dollars	359,543		(5)					
36	dollars	359,543		(2)	24,229	79,000	74,688		

Includes Adams, Benton, Chelan, Claliam, Columbia, Douglas, Ferry, Kitsap, Kittitas, Okanogan, Pend Oreille, Walla Walla, and Whitman counties. Land served by two or more projects counted only once. Abares served by two projects are included for each project. See text. Includes projects taken over by another project prior to 1960. See text. Tincludes projects taken over by another project prior to 1960. See text.

State Table 1.-DRAINAGE PROJECTS-NUMBER, AREA, COST, AND WORKS, 1920 TO 1960

[See text for comparability of data]

	e text for comparability of d	at n			
l Cern	1960 Census	1950 Cenaus	1940 Census	1930 Census	1920 Gengus
	Census	Cennus	Census	Census	Census
AREA					
Approximate land areaacres	35,011,200	35,011,200	35,017,600	35,363,840	35,363,840
Land in farms	21,156,223	23,221,095	22,876,494	21,874,155	22,148,22
Drainage projectsnumber	235	206	396	NA NA	NA NA
Total area in drainage projectsacres served	587,803	514,700	761,203	892,713	794,569
Area not used for agriculture or not drainedacres served	3,710	NA.	NA.	NA.	N.
Not area drained and used for agricultureacres served	584,093	NA.	1561,723	1574,892	N.
Drainage established 10 years or more before Census date	536,444	NA.	NA.	NA.	N.
Drainage established within 10 years of Census date	47,649	NA.	NA.	NA NA	N.
Area served by two or more projects	4,770	1,720	11,790	2,985	
PROJECTS BY TYPE OF ORGANIZATION					
Drains owned by one landowner	7	1	NA.	NA.	N/
acres served	8,055	700	² 3,600	5,710	(2)
Cooperative or mutual drains	17		• • • •		
ncres served	23,834				•••
Logally organized public drains	211	205	NA.	NA NA	N.
acres served	556,974	514,000	² 721,603	887,003	² 790,489
PROJECTS BY YEAR STARTED					
Started 10 years or more before Census date	203	186	NA.	NA.	N/
acres served	533,314	471,714	754,393	760,911	3462,696
Started withis 10 years of Census datenumber of projects	32	20	NA.	NA.	NJ.
acres served	55,549	42,986	6,810	131,802	³ 329,526
	,	,	,,,,,	,	,
OPERATIONS, 10-YEAR PERIOD PRECEDING CENSUS DATE					
Cost of drainage works and services projects reporting	140	92	NA.	NA.	N.
doltar≪	1,579,398	610,918	NA NA	NA.	N
New drainage works constructed, enlarged, or installedprojects reporting	45	415	NA.	NA.	Nu Nu
cost, dollars	598,533	4296,176	NA.	NA.	N/
Open ditches	40	15	NA.	NA.	N/
length, miles	261.8	76	NA.	NA.	NA NA
Tile or covered drains	12	3	NA.	NA	N/
length, males	78.5	10	NA.	NA.	NJ.
Levees or dikesprojects reporting	5		NA.	NA.	N.
length, mules	12.0		NA.	NA NA	N/
Pumps projects reporting	5	NA NA	NA.	NA	, NA
number of pumps	8	NA	NA.	NA NA	N.
Other (see text)	1	NA.	NA.	NA.	NJ.
Cost of maintenance, operation, repair, and administration	118	NA NA	NA.	NA.	N.
dollars	980,865	314,742	NA.	NA.	N/
STATUS ON CENSUS DATE					
Capital investmentdollars	NA.	NA	4,254,586	6,207,278	4,163,05
Physical works: Open ditchselength, miles	NA.	NA	1,580.7	1,989.4	1,691.3
Tile drainslength, miles	NA.	N/.	282,5	303.4	211.
Levees and dikes	NA.	NA.	8.0	9.0	7.1
Pumping units	NA.		NA.	1	N/
- waying wines	l max		- un	•	

NA Not available. See text.
- Not Nally comparable. See text.
- Not Nally comparable. See text.
- Not Nally comparable control of the see text.
- Not figure by type of project exclude 36,000 acres reported as "other"; 1920 figures by type of project exclude 4,080 acres reported as "other."
- Oct of new works for lands not previously drained.

State Table 2.-DRAINAGE

			ed and used lture, 1960	Area by period drainage was established						
Size of project (Based on area of agricultural land in project)	Number of projects	Total	Served by two	Befor	re 1950	Area added	1950-1959			
		(acres)	or more projects (acres)	Projects reporting	Acres	Projects reporting	Acres			
All projects	235	588,863	9,540	209	541,214	36	47,649			
500 to 999 acres.	68	48,510	1,230	54	38,895	16	9,615			
1,000 to 1,999 acres	88	124,894	5,010	80	111,917	12	12,977			
2,000 to 4,999 acres	56	165,204	880	52	153,857	6	11,347			
5,000 to 9,999 acres	16	103,960	2,420	16	103,960					
10,000 to 19,999 acres	6	90,295		6	76,585	2	13,710			
20,000 to 49,999 acres										
50,000 to 99,999 acres	1	56,000		1	56,000					
100,000 or more acres										

State Table 3.-DRAINAGE PROJECTS, 1960,

		Area draine for agricul		Area	a by period drainage was established				
Type of organization	Number of projects	Total	Served by two	Before	1950	Area added 1950-1959			
	projecto	(acres)	or more projects (acres)	Projects reporting	Acres	Frojects reporting	Acres		
All projects.	235	588,863	9,540	209	541,214	36	47,64		
Drains owned by one landowner	7	8,055		2	1,700	6	6,3		
Cooperative or mutual drains	17	23,834	480	7	14,604	1.2	9,23		
Legally organized public drains	211	556,974	9,060	200	524,910	18	32,0		

State Table 4.-DRAINAGE PROJECTS, 1960,

		Area draine for agricul		Area by period drainage was established					
Year of organization	Number of projects		Served by two	Before 1950		Area added 1950-195			
	projects	Total (acres)	or more projects (acres)	Projects reporting	Acres	Projects reporting	Acres		
All projects	235	588,863	9,540	209	541,214	36	47,64		
1950-1959	32	55,549	2,650	6	10,660	28	44,88		
Prior to 1950.	203	533,314	6,890	203	530,554	8	2,76		

PROJECTS, 1960, BY SIZE

			50-1959	nstalled, 195	nlarged, or i	constructed, e	New works			1950-1959	and services,	rainage works	Cost of di
ther.	T	ips	Fum	nd dikes	Levees a	red drains	Tile or cov	itches	Open d	works	For new	tal	To
oject: portir	F	Number	Frojects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting
		8	5	12.0	5	78.5	12	261.8	40	598,533	45	1,579,398	140
		7	4	6.8	3	45,2	3	110.7	16	133,974	17	183,110	38
		1	1	3.2	1	25,9	5	74.9	13	194,661	16	298,769	49
						1.8	1	26.0	6	78,598	7	367,103	37
						2.2	1	7.1	2	27,100	2	329,854	10
				2.0	1	3.4	2	43.1	3	164,200	3	400,216	5
												346	1

BY TYPE OF ORGANIZATION

Cost of d	rainage works	and services,	1950-1959		New works constructed, enlarged, or installed, 1950-1959								
To	tal	For new	works	Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other,	
Projects reporting	Dollars	Frojects reporting	Dollars	Frojects reporting	Length (miles)	Frojects reporting	Length (miles)	Projects reporting	Length (miles)	Frojects reporting	Number	project: reporting	
140	1,579,398	45	598,533	40	261.8	12	78.5	5	12.0	5	8	1	
7	114,900	7	104,500	6	39.5	3	51.1	3	6.8	4	6		
15	124,255	11	82,160	11	115.2	2	12.3					1	
118	1,340,243	27	411,873	23	107.1	7	15.1	2	5.2	1	2		

BY YEAR OF ORGANIZATION

Cost of d	irainage works	and services,	1950-1959			New works	constructed, e	nlarged, or i	installed, 195	0-1959			
To	otal	For ne	w works	Open d	itches	Tile or cov	ered drains	Levees a	and dikes	Pw	mps	Other,	1
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Frojects reporting	Length (miles)	Frojects reporting	Number	projects reporting	
140	1,579,398	45	598,533	40	261.8	12	78.5	5	12.0	5	8	1	
32	455,667	29	409,802	28	224.0	6	61.0	4	10.0	4	6	1	
108	1,123,731	16	188,731	12	37.8	6	17.5	1	2.0	1	2		
													1_

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

Item and Census year	The State	Adams	Barron	Brown	Buffalo	Burnett	Calumet	Columbia	Dane	Dodge
AREA										
AREA Approximate land area	35,011,200	433,280	554,240	336,000	455,680	535 600	202 (00			500 44
Land in farms acres 1959.	21,156,223	171,812	466,724	292,995	,	537,600	201,600	497,920	766,080	570,88
Drainage projects	235	3	400,724	292,993	385,678	163,370	190,327	411,128	682,960 33	501,94
1950	206	2	2	3		1	1	16	25	1
Total area in drainage projects 1	587,803	20,510	1,520	4,960	575	1,760	1,060	28,525	61,818	9,04
1950	514,700	17,310	1,520	4,960		1,760	1,060	24,130	52,943	3,38
Area not used for agriculture or not drained acres served 1960	3,710	17,510	1,520	4,900		1,700	1,000	24,130	1,200	
Net area drained and used for agriculture acres served 1960	584,093	20,510	1,520	4,960	575	1,760	1,060	28,525	60,618	9,0
Drainage established before 1950 acres served 1960	536,444	17,310	1,520	4,960		1,760	1,060	25,625	56,303	9,0
Area added, 1950-1959 acres served 1960	47,649	3,200	2,520	4,500	575	2,700		2,900	4,315	,,,,
Area served by two or more projects acres served 1960	4,770							750	1,900	
The served by the or have popularity and a served state.	4,170				• • • •			130	1,500	
PROJECTS, 1980, BY TYPE OF ORGANIZATION										
Drains owned by one landowner , number of projects ,	7	1			1			1		
actes served ² .	8,055	3,200			575			1,000		
Cooperative or mutual drainsnumber of projects	17							2	1	
acres served ² ,	23,834							2,500	600	24
Legally organized public drains number of projects	211	2	2	3		1	1	15	32	:
acres served ²	556,974	17,310	1,520	⇔,961		1,760	1,060	25,775	61,918	8,80
PROJECTS, 1960, BY YEAR STARTED										
1950-1959 number of projects	32	1			1			4	7	
acres served ²	55,549	3,200			575			-,360	8,915	
Prior to 1950number of projects	203	2	2	3		1	1	14	26	1
acres served ²	533,31-	17,310	1,520	4,960		1,760	1,060	24,915	53,603	9,0
DRAINAGE OPERATIONS, 1950-1959 3										
Cost of drainage works and services projects reporting	140			2	1			12	26	
dollars	1,579,398	5,050		10,584	10,000			104,131	114,266	22,82
New drainage works constructed, enlarged, or installed	45	1			1			7	6	
dollara	598,533	4,000			10,000			58,413	41,180	
Open ditchesprojects reporting.	40	1			1			4	6	
length, miles	261.0	5,0			7.7			17.0	12.5	
Tile or covered drains	12							2		
length, miles	78.5							13.4		
Levees or dikes	5									
length, miles	12.0				3.3					
Pumps projects reporting	12.0				1			2		
number of pumps	8				2			3		"
Other (see text)	1									
Cost of maintenance, operation, repair, and	1									
administration	118	2		2				9	26	
dottars	980,865	1,050		10,539				45,718	73,086	22,82

¹Land served by two or more projects counted only once.

²Acres served by two projects are included for each project. See text.

²Includes projects taken over by another project prior to 1960. See text.

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

_				parability of 190	7	,				-	
	Item and Consus year	Fond du Lac	Green	Green Lake	Jefferson	Juneau	Kenosha	Manitowne	Marinette	Marquette	Milwaukee
	AREA										
1	Approximate land areascres 1960	463,360	375,040	227,200	360,960	508,800	174,720	376,960	888,320	292,480	152,960
2	Land in farmsacres 1959	409,776	361,739	188,643	310,500	219,103	123,495	336,144	277,242	213,844	32,848
3	Drainage projectsnumber 1860	13	6	2	45	4	7	3	3	3	3
4	1950	12	5	2	33	4	6	2	2	1	5
5	Total area in drainage projects 1	14,682	7,800	4,320	65,456	7,180	16,500	4,542	23,040	4,630	2,590
6	1950	14,412	6,400	4,320	44,980	8,580	15,700	3,510	6,760	700	5,890
7	Area not used for agriculture or not drained acres served $1960\ldots$								640		540
6	Net area drained and used for agriculture scres served 1980	14,682	7,800	4,320	65,456	7,180	16,500	4,542	22,400	4,630	2,050
9	Drainage established before 1950 acres served 1960	14,412	6,600	4,320	64,006	6,280	15,700	3,510	6,120	700	2,050
10	Area added, 1950-1959 acres served 1960	270	1,200	1	1,450	900	800	1,032	16,280	3,930	
11	Area served by two or more projects acres served 1960	480									
	PROJECTS, 1960, BY TYPE OF ORGANIZATION										
12	Drains owned by one landowner number of projects					1				1	
13	acres served ²					900				1,160	
14	Cooperative or mutual drainsnumber of projects	1			4		1			1	
15	acres served ² ,	750			6,884		800			1,560	
16	Legally organized public drains number of projects	12	6	2	41	3	6	3	3	1	3
17	acres served ²	14,412	7,800	4,320	58,572	6,280	15,700	4,542	22,400	1,910	2,050
	PROJECTS, 1960, BY YEAR STARTED										
16	1950-1959 number of projects		1		2	1	1	1	2	2	
19	acres served ²		1,200		1,450	900	800	1,032	20,280	3,470	
20	Prior to 1950number of projects	13	5	2	43	3	6	2	1	1	3
21	acres served 2	15,162	6,600	4,320	64,006	6,280	15,700	3,510	2,120	1,160	2,050
	DRAINAGE OPERATIONS, 1950-1959 ⁵										
22	Cost of drainage works and servicesprojects reporting	2	4	1	38	3	5	1	2	3	1
23	dollars	12,600	53,718	135	78,953	12,400	20,760	18,532	90,493	57,600	820
24	New drainage works constructed, enlarged, or installedprojects reporting	(4)	1		2	(4)		1	2	3	
25	dollars	(4)	28,000		4,030	(4)		18,532	80,000	52,000	
26	Open ditchesprojects reporting	(4)	1		2	(4)		1	2	3	
27	length, miles	(4)	5.0		4.0	(4)		1.3	43.0	40.5	
28	Tile or covered drainsprojects reporting	(4)				(4)		1	1	1	
29	length, miles	(4)				(4)		1.9	0.4	7.6	
30	Levees or dikesprojects reporting									1	
31	length, miles									3.2	
32	Pumpeprojects reporting										
33	number of pumps										
34	Other (see text) projects reporting										
35	Cost of maintenance, operation, repair, and administrationprojects reporting	(4)	3	1	37	(4)	5		1	1	1
36	dollars	(4)	25,718	135	74,923	(4)	20,760		10,493	5,600	820

land served by two or more projects counted only once.
Acres served by two projects are included for each project. See text.
Includes projects taken over by another project prior to 1960. See text.
The luded in State total only.

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

Item and Ceasus year	Monroe	Oconto	Outagamie	Ozaukee	Polk	Portage	Racine	Richland	Rock	Rusk
AREA										
1 Approximate land area	585,600	707,840	405,760	150,400	597,760	518,400	215,680	373,760	461,440	582,400
2 Land in farms	412,740	325,224	345,935	116,827	438,147	399,278	149,391	351,672	417,586	265,746
3 Drainage projectsnumber 1960	1	4	17	5	3	2	10	1	9	
4 1950	1	1	15	5	3	2	9	1	7	:
5 Total area in drainage projects 1	13,000	16,360	38,572	6,870	3,400	58,560	60,280	880	27,840	1,250
8 1950	13,000	8,960	37,282	6,870	3,400	58,560	52,780	880	24,840	1,250
7 Area not used for agriculture or not drained acres served 1960			1,330						·	٠.,
6 Net area drained and used for agriculture acres served 1960	13,000	16,360	37,242	6,870	3,400	58,560	60,280	880	27,840	1,25
9 Drainage established before 1950 acres served 1960	13,000	15,360	35,992	6,870	3,400	58,560	59,850	880	24,840	1,25
10 Area added, 1950-1959 acres served 1960		1,000	1,250				430		3,000	
11 Area served by two or more projects acres served 1960										
PROJECTS, 1960, BY TYPE OF ORGANIZATION										
12 Drains owned by one landowner										
13 acres served ²								•••	•••	•••
14 Cooperative or mutual drains		3	2			• • • • • • • • • • • • • • • • • • • •	•••	• • • •	1	
15 acres served ² .		7,400	1,250				• • • •	•••		
16 Legally organized public drains number of projects	1	1,400	1,230				10		1,100	
17 acres served ²	13,000	8,960	35,992	6,870	3,400	58,560	60,280	880	26,740	2 250
	25,000	0,500	33,792	0,070	3,400	20,200	00,200		20,740	1,250
PROJECTS, 1960, BY YEAR STARTED										
18 1950-1959number of projects		2	2	• • • •		• • • •			2	***
19 acres served ²		1,000	1,250						2,500	• • •
20 Prior to 1950, number of projects	7	2	15	5	3	2	10	1	7	1
21 acres served ²	13,000	15,360	35,992	6,870	3,400	58,560	60,280	880	25,340	1,250
DRAINAGE OPERATIONS, 1950-1959 5										
22 Cost of drainage works and services projects reporting	1	3	6	2	1	1	9		8	
23 dollars	8,000	14,400	27,052	475	4,101	346	709,509		96,057	
24 New drainage works constructed, enlarged, or installed		2	2				4		5 :	
25 dollars		14,200	9,500				132,907		49,400	
28 Open ditches		2	2				3		5	
27 length, miles		2.9	72.0				13.2		14.5	
26 Tile or covered drainsprojects reporting							3			
29 length, miles							7.0			
30 Levees or dikes projects reporting							1			
31 length, miles							2.0			•••
32 Pumpsprojects reporting										•••
33 number of pumpa										
34 Other (see text)		1								
35 Cost of maintenance, operation, repair, and										
administrationprojects reporting	1	1	4	2	1	1	9		7	
36 dollars	8,000	200	17,552	475	4,101	346	576,602		46,657	•••

¹Land served by two or more projects counted only once.

²Acres served by two projects are included for each project. See text.

³Includes projects taken over by another project prior to 1960. See text.

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County Table 1. - DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

_			T	iparability or 196							
	Item and Census year	Sauk	Shawano	Sheboygan	Walworth	Weshington	Waukesha	Waupaca	Waushara	Winnebago	All other counties
	AREA										
1	Approximate land areascres 1960	537,600	752,640	323,840	358,400	273,920	355,840	480,640	401,920	290,560	819,840
2	Land in farms	460,193	451,245	275,649	306,290	218,120	230,728	367,670	272,880	236,621	572,422
3	Drainage projectsnumber 1960	1	5	5	3	4	8	8	10	230,021	
4	1950	1	5	6	3	5	8	8	9	3	4
5	Total area in drainage projects ²	4,400	10,990	3,906	13.380	7,200	11,141	9,680	12,650	6,929	
6	1950	4,400	10,990	4,546	13,380	8,260	8,574	9,680	12,050	6,179	10,500
7	Area not used for agriculture or not drained acres served 1960								12,000	0,179	10,500
8	Not area drained and used for agriculture acres served 1960	4,400	10,990	3,906	13,380	7,200	11,141	9,680	12.650	6,929	
9	Drainage established before 1950 acres served 1960	4,400	10,990	3,906	13,380	6,580	7,994	9,680	12,050	6,179	
10	Area added, 1950-1959 acres served 1960				2,500	620	3,147	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	600	750	
11	Area served by two or more projects								1,640		
	Alles served by the or more projects Butes served 1900				•••			•••	1,040		
	PROJECTS, 1960, BY TYPE OF ORGANIZATION										
12	Drains owned by one landowner number of projects					1			1		
13	acres served ³					620			600		
14	Cooperative or mutual drainsnumber of projects									1	
15	acres served ³ ,									750	
16	Legally organized public drainsnumber of projects	1	5	5	3	3	8	8	9	3	
17	acres served ³	4,400	10,990	3,906	13,380	6,580	11,141	9,680	13,690	6,179	
	PROJECTS, 1960, BY YEAR STARTED										
	1950-1959 number of projects				•••	1	1		1	1	
19	acres served ³					620	2,647		600	750	
	Prior to 1950number of projects	1	5	5	3	3	7	. 8	9	3	
21	acres served ³	4,400	10,990	3,906	13,380	6,580	8,494	9,680	13,690	6,179	• • • •
	DRAINAGE OPERATIONS, 1950-1959							İ			
22	Cost of drainage works and servicesprojects reporting	1	1	3		3	7	1	2	(5)	
23	dollars	4,000	12,000	935		11,700	19,671	200	54,203	(5)	
24	New drainage works constructed, enlarged,									ŕ	
	or installedprojects reporting	• • •				(5)	2		(5)	(5)	
25	dollars	• • •				(5)	12,791		(5)	(5)	
26	Open ditchesprojects reporting	• • • • • • • • • • • • • • • • • • • •				(5)	2		(5)	(5)	
27	length, miles	• • •				(5)	4.5		(5)	(5)	
26	Tile or covered drainsprojects reporting					(5)			(5)	• • • • • • • • • • • • • • • • • • • •	
29	length, miles	•••				(5)	• • •		(5)		
30	Levees or dikesprojects reporting					(5)			(5)		
31	length, miles					(5)			(5)		
32	Pumpeprojects reporting					(5)			(5)		
33	number of pumps					(5)			(5)		
34	Other (see text)										
35	Cost of maintenance, operation, repair, and administrationprojects reporting	1	1	3		(5)	5	,	(5)		
36	dollars	4,000	12,000	935		(5)	6,880	200	(5)	•••	
	collars	·-,000	12,000	933		(-)	0,000	200	(*)		

Includes LaCrosse and Wood counties.

Land served by two or more projects counted only once.

Acres served by two projects are included for each project. See text.

Includes projects taken over by another project prior to 1960. See text.

Pincluded in State total only.

State Table 1. – DRAINAGE PROJECTS – NUMBER, AREA, COST, AND WORKS, 1920 TO 1960

See text for comparability of data

See	text for comparability of d	ata j			
l Leen	1960 Census	1950 Census	1940 Census	1930 Census	1920 Census
AREA					
Approximate land areaacres	62,343,040	62,403,840	62,403,840	62,430,720	62,430,72
Land in farms	36,199,666	34,420,892	28,025,979	23,525,234	11,809,35
Drainage projectsnumber	6	189	25	NA.	N
Total area in drainage projectsacres served	23,833	325,981	312,662	245,703	95,47
Area not used for agriculture or not drained		NA.	NA.	NA.	N N
Net area drained and used for agriculture	23,833	NA.	1287,420	1188,327	N.
Drainage established 10 years or more before Census date	23,833	NA	NA.	NA.	N
Drainage established within 10 years of Census dateacres served	•••	NA.	NA.	NA.	N
Area served by two or more projectsacres served		500		2,613	
PROJECTS BY TYPE OF ORGANIZATION					
		(2)			
Drains owned by one landownernumber of projects		(2)	NA (2)	NA (2)	N.
acres served		22			250
Cooperative or mutual drains	***	² 2,669	•••	• • • •	
acres servedegally organized public drains		² 2,669	NA	 NA	 N
acres served	23,833	284,116	² 88,803	289,908	² 60,83
acres serveo	22,033	04,110	00,003	07,900	60,83
PROJECTS BY YEAR STARTED					
Started 10 years or more before Ceasus datenumber of projects	6	217	NA NA	NA.	
acres served	23,833	² 84,116	312,662	137,154	
Started within 10 years of Census datenumber of projects		22		NA NA	11.
acros servei		² 2,669		108,549	95,47
OPERATIONS, 10-YEAR PERIOD PRECEDING CENSUS DATE					
Cost of drainage works and services projects reporting	6	214	NA.	NA.	N.
dollars	145,293	163,163	NA NA	NA NA	N/
New drainage works constructed, enlarged, or installed	1	32	NA.	NA NA	N/
cost, dollars	2,300	312,237	NA.	NA.	N.
Open ditches projects repurting	,,,,,,	2	NA.	NA.	N.
longth, miles		5	NA.	NA NA	N/
Tile or covered drains projects reporting	1		NA.	NA.	N/
length, males	0.4		NIA.	NA.	NU NU
Levees or dikes			NA.	NA.	NJ.
length, miles			NA.	NA.	N
Pumps		NA.	NA.	NA.	N/
number of pumps		NA.	NA.	NA.	N.
Other (see text) projects reporting		NA.	NA	NA.	NJ NJ
Cost of maintenance, operation, repair, and administration projects reporting	6	NA.	NA.	NA.	N/
dollars	142,993	150,926	NA	NA.	N
STATUS ON CENSUS DATE					
aprital investment	NA.	NA NA	5,594,856	5,250,573	1,175,96
hysical works: Open ditcheslength, miles	NA NA	NA.	643.3	521.0	25.1
Tile drainslength, mules	NA	NA .	262.1	237.6	114.2
Levees and dikeslength, mules	NA i	NA.	7.2		
		(2)			

MA Not available.

Not fully comparable. See text.

Not fully comparable. See text.

Not fully comparable. See text.

Not fully comparable 170 projects and 239,196 acres in "irrigation enterprises"; 1940 figures exclude 223,859 acres in "irrigation enterprises"; 1930 figures exclude 155,795 acres in "irrigation enterprises"; 1930 figures exclude 34,140 acres in "irrigation enterprises."

Scoat of new works for lands not previously drained.

State Table 2.—DRAINAGE

			ed and used lture, 1960	Are	a by period drain	age was establish	ed
Size of project (Based on area of agricultural land in project)	Number of projects	Total	Served by two	Befor	re 1950	Area added	1950-1959
		(acres)	or more projects (acres)	Projects reporting	Acres	Projects reporting	Acres
All projects.	6	23,833		6	23,833		
500 to 999 acres							
1,000 to 1,999 acres	2	3,455		2	3,455		
2,000 to 4,999 acres	1	3,347		1	3,347		
5,000 to 9,393 acres	3	17,031		3	17,031		
10,000 to 19,999 acres							
20,000 to 49,939 acres							
50,000 to 99,999 acres							
100,000 or more acres							

State Table 3.-DRAINAGE PROJECTS, 1960,

		Ares draine for agricul		Area by period drainage was established					
Type of organization	Number .f projects	Total	Served by two	Before	1950	Area added	1950-1959		
		(acres)	projects (acres)	Projects reporting	Acres	Frojects reporting	Acres		
All projects	6	23,833		6	23,833				
Drains owned by one landowner.									
Cooperative or mutual drains									
Legally organized public drains	6	23,833		6	23,833				

State Table 4.-DRAINAGE PROJECTS, 1960,

		Area draine for agricul		Are	a by period drain	age was establish	ed
Year of organization	Number of projects		Served by two	Before	1950	Area added	1950-1959
	brollects	Total (acres)	or more projects (acres)	Frojects reporting	Acres	Frojects reporting	Acres
All projects.	6	23,833		6	23,833		
950-1959							
Prior to 1950.	6	23,833		6	23,833		

PROJECTS, 1960, BY SIZE

		0-1959	nstalled, 195	nlarged, or i	constructed, e	New works			1950-1959	and services,	rainage works	Cost of d
Other,	рв	Pum	nd dikes	Levees a	ered drains	Tile or cov	itches	Open d	works	For new	tal	To
projects reporting	Number	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting
					0.4	1			2,300	1	145,293	6
											4,719	2
											9,798	1
					0.4	1			2,300	1	130,776	3
	projects reporting	Number Projects	Fumps Other, Frojects reporting Number reporting	nd dikes Fumps Other, Length (miles) Projects reporting Number reporting	Leves and dikes Fumps Other, Projects Length reporting Number reporting Number reporting	ered drains Levees and dikes Fumps Other, Length (miles) Frojects (miles) Frojects reporting 0.4	Projects reporting Length (miles) Projects (miles) Projects reporting Number reporting 1 0.4	tiches Tile or covered drains Levees and dikes Fumps Other, Length (miles) Projects Length (miles) Projects reporting (miles) Rounder Reporting Re	Open ditches Tile or covered drains Leves and dikes Fumps Other, Frojects Length (miles) Projecte Length reporting (miles) 1 0.4	works Open ditches Tile or covered drains Leves and dikes Fumps Other, projects Frojects reporting (miles) Frojects (miles) Frojects reporting Canada and	From works Open ditches Tile or covered drains Leves and dikes Fumps Other, Projects Projects reporting Dollars Frojects (miles) Trojects (miles) Trojects reporting 1 2,300 1 0.4 1 0.4 1 2,300 1 2,300 1 0.4	Tile or covered drains Leves and dikes Fumps Other

BY TYPE OF ORGANIZATION

Cost of d	rainage works	and services,	1950-1959			New works	constructed, e	nlarged, or i	nstalled, 195	0-1959		
To	tal	For new	works	Open d	itches	Tile or cove	red drains	Levees a	nd dikes	Pump	s	Other,
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number	projects reporting
6	145,293	1	2,300			1	0.4				•••	
									•••			
6	145,293	1	2,300			1	0.4					

BY YEAR OF ORGANIZATION

Cost of d	irainage works	and services,	1950-1959	1959 New works constructed, enlarged, or installed, 1950-1959						0-1959		
To	otal	For ne	w works	Open d:	l tches	Tile or cov	ered drains	Levees as	nd dikes	Pur	mps	Other,
Projects reporting	Dollars	Projects reporting	Dollars	Frojects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number	projects reporting
6	145,293	1	2,300			1	0.4					
		•••	•••									
6	145,293	1	2,300			1	0.4					

County Table 1. - DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959 [See text for comparability of 1960 and 1950 data]

Item and Census year The State Big Horn Platte Washalda All other counties1 AREA 21,335,040 62,343,040 2,032,640 1,447,680 49,395,200 36.199.666 513,960 21,429,736 467,204 27,618,108 Drainage projects.....number 1960... 3 38 14 133 Total area in drainage projects³......acres served 1980... 23.833 10,350 1,680 11,803 325,981 105,143 5.663 39,535 175,642 Area not used for agriculture or not drained acres served 1960... Net area drained and used for agriculture acres served 1960... 10,350 1,680 11,803 Dramage established before 1950 scres served 1960 23,833 10,350 1,680 11,803 10 Area added, 1950-1959 acres served 1960 . . . PROJECTS, 1980, BY TYPE OF ORGANIZATION 13 15 16 Legally organized public drains..... number of projects... 1 23.833 10.350 1.680 11.803 PROJECTS, 1960, BY YEAR STARTED 1950-1959 number of projects ... 19 20 Prior to 1950 number of projects 23,833 10.350 1.680 11,803 DRAINAGE OPERATIONS, 1950-1959 Cost of drainage works and servicesprojects reporting .. 1 23 dollars . . . 145,293 22,549 1,250 121,494 24 New drainage works constructed, enlarged, or installed.....projects reporting... 25 dollars . . . 2,300 Open ditches......projects reporting... 27 length, miles . . . 28 Tile or covered drains projects reporting 29 0.4 0.4 81 length, miles . . . 88 24 Other (see text) projects reporting 35 Cost of maintenance, operation, repair, and 142,993 22,549 dollars ... 1,250 119,194

Includes Albany, Carbon, Converse, Crook, Fremont, Goeben, Hot Springs, Johnson, Laramie, Lincoln, Natrons, Park, Sheridan, Sublette, Sweetwater, Teton, and Units counties.

The excess of farm acreage over approximate land area is due to the fact that the entire acreage of a farm is tabulated as in the county in which the headquarters is located, part of the farm many be situated in an adjoining county.

Land served by two or more projects counted only once.

Acrea served by two projects are included for each project. See text.

Includes projects taken over by another project prior to 1960. See text.

APPENDIX

The Questionnaire

(357)

			10			
Form 80D1 (8-12-59)	This census is authorized swered completely and accurat for purposes of taxation, in:	by Act of Congress, Unite- ely, and guaranteeing that t vestigation, or regulation	f States Code, Title 13, S he informaton furnished be ·	ections 5, 9, 14 secorded confi	12, 221, 223, and 224, requiring that the inquiries be and dential treetment. The census report cannot be used Approval cipic	n No. 41-6988 es December 31, 1960
D1 No.		MENT OF COMMERCE—BUREAU O	OF THE CENSUS	10. What ne enlarged,	w drainage works have been constructed, or installed, during this 10-year period?. (If "None," mark X and skip to Section III.)	None
		ISUS OF DRAINAGE OF GRICULTURAL LANDS:	1960			
State		County		(a) Open	ditches? None Miles /10 or Linear	eet
	Costley Y	ORGANIZATION		(b) Tile	or other vered drains? . None Miles /10 or Linear i	leet
1. What is the	nsme	-ORGANIZATION		-		
of this drain project or or	nage rganization?			(c) Leve	es or dikes? None Miles/10 or Linear i	eet
(a) If the n it is diff	ame of the organization which erent, give name of organization	controls on bere		(d) Pum	ps? None Number	
2. What person to this drain	n or persons may be contacted nage project or organization?	in reference		(e) Othe	r? None 🗌	
Name		Connection with project or organization	et			
Address			Telephone number			
		Connection with proje	et	11. Of the to	otal costs of works and services provided in this	
Name		or organization	Telephone number	drainage	period (question 9), how much represented new works (question 10)? None	
		Connection with proj			the outlet of the new drainage works?	
Name		or organization	Telephone number	(a) Nam	e of lake, stream, or a receiving discharge	
Address			number	=		
3. Is this proje	ect or organization— (a) Owned by one land owner	(individual,			tion of outlet: Section Range	
	partnership, corporation, of	or institution)?	[6]	or _	miles from (nearby town or place)	
(Mark one.)	(b) A cooperative or mutual of					
	(c) A legally organized public				Section III.—AREA IN PROJECT	To enumerator: Check shaded squar- when area to left has been mapped
4. Has this dra	sinage project or organization-	_		Attach to this	s report a map for this project or organization indicating drained areas	been mapped
	(a) Officials now to conduct it (b) No officials now, and has			lands served	s report a map for this project or organization indicating drained areas January I, 1950. Any sizeable included areas which are not agricultural by the drainage works of this project should be outlined. (You may e area on the township grid on the back of this questionnaire, if	
((c) Been dissolved by court a	etion?	. 0	convenient.)		- 1
5. Does this pr service other	roject provide any major public er than agricultural drainage? er removal, flood control, mosq	e i	No 🗆 Yes [
1	er removal, nood control, mosq escribe public service provided:	uito controi, sewage disposa	1, etc)	13. What wa drainage	s the total Brea included in this project or organization in this n January 1, 1950?	- 1
Ij Tes, ac	escribe public service provided			county o	n January 1, 1950? None Acres f "None," skip to question [15].)	ţ
[6] What yes	r was this drainage project	Before 1950 1950 or later				
7. Does this dr	zation started? rainage project extend into cou the county listed at the top of t	1950 or later nties this questionnaire?	? ☐→ What year? No ☐ Yes ☐	14. How must since Jan	ch area has been added	
	hat other countries?	out questonnaire.				MENTERIS
1, 100, 10				[15] What or orga	was the total area for this project nuzation on January 1, 1860; nuzation on 1950, and area in 1960 does not equal questions 13 and 14, explain under Remarks.)	
If the drain	age organization operates, or	the drainage project extend	s into	sum of	questions 13 and 14, explain under Remarks.)	
county. Th	uage organization operates, or ues, separate questionnaires are he information given for the foll on in this county. See worksh	lowing questions should relate neet on back of this question	e only	16. Are there	e within this total area (question 15) any	
	Section II.—OPERATIONS			contiguor	e within this total area (question 15) any us tracts totaling 500 or more acres of le following—	
You may re	port on either o calendar or fis	scal year basis. Indicate w	hich			
Calendar y	ear basis 🔲 Fiscal	year basis			(ii) Land that no longer receives drainage benefits from these drainage facilities (because drainage works have deteriorated completely)? No [Yes [
	through Dec 31 1959	19throug	h 19	_	(b) Land that receives no drainage benefits	
	l (mont	(Include full 10-v	ear period)		(b) Land that receives no drainage benefits from works of this project. Include land protected from overflow with no drains provided for the protected land? No \(\sqrt{No} \sqrt{Yes} \sqrt{\sqrt{No}} \sqrt{Yes} \sqrt{\sqrt{No}} \sqrt{\sqrt{Yes}} \sqrt{\sqrt{No}}	
	ou may use worksheet on back		(0-year period.)	(Answer all parts.)	(c) Land for which the need for drainage	
the manage	post 10 years, has there been t ment of this project or organiz			J. Control	resulted solely because of irrigation? . No Yes	
1	(a) Construction or installation enlargement or complete:	on of new drainage works, a replocement of prior works?	cluding No No Yes		(d) Land not now being used for sgriculture?. No No Yes	
(Answer all parts.)	(b) Major clean-out or restor		. No No Yes		(Wasteland cutover land residential	
	(c) Maintenance, operation, (d) Other operations?				industrial, airports, military installation, public parks, wildlife refuge, State or National Forest, commercial woodland, etc.)	
	If "Yes" for (d), describe:					
	. , ,-,,				Give present use and identify name of tract when possible:	
	or all parts (a) through (d), skip the total cost of all drainage we					
services pro	ovided for this 10-year period? I costs relating to works and on	rvices provided during the 1	\$0 vests	-		
regardless o	wided for this 10-year period? I costs relating to works and se of when paid or to be paid. Be n, engineering, rights-of-way, le ude payments on principal or i	sure to include costs of gal services, and administra	tion	17. If "Yes"	for any part of question 16—What is area of the tracts with "Yee"?. Acres	30
Do not incl	ude payments on principal or i	nterest on bonds or notes.)		the total	area of the tracts with "Yes"? Acres	£. J3

THE QUESTIONNAIRE

C-West	A.	Section IV.—OVERLAPPED AREA		To enumerator: Check shaded square when area to left has been mapped	· · · · · · · · · · · · · · · · · · ·	Section VC	ERTIFICATION		
18. Has any	other	drainage project or organization, at ng the past 10 years—		when area to left has been mapped	19. Who supplied this	information?			
any time	durii (a)	ng the past 10 years— Taken over all or any part of this project?		1	Name	Title		Date	
	,,	of this project?	No 🗆	+	Mail address				19
							Telephone No.		
		(Name of other project or organization)	(Acres taken over)	Hereite	Name	Title		Date	19
	(6)	Been taken over in whole or in part by this project or organization?	No □ or		Mali address		Telephone No.	1	
(Answer all	{		VI	170000	Control 1				
parts.)		(Name of other project or organization)	(Acres taken over)	Resident.	Certified by-	, Enumerator	Date (month and	t day)	
]	(c)	Provided any separate or supplemental drainage service for all or any part of the area in this project or organization?			Checked by-		Data (mouth an	i day)	
		of the area in this project or organization?	No 🗆			Drainage , Supervisor			
			or	Contract of		OFFI	CE USE		
1		(Name of other project or organization)	(Acres with dual service)		Area 1950 Census	Area overlapped in 1950	Area overlapped	in 1960	Net area served in 1960
REMARKS									
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OFFICE OF THE DIRECTOR

DEPARTMENT OF COMMERCE BUREAU OF THE CENSUS WASHINGTON 25

Dear Sir:

A Census of Drainage organizations covering drainage operations for the year 1959 is now being taken by the Bureau of the Census. An Act of Congress (13 USC; Sec. 142) directs the Bureau of the Census to take this census and requires a report from you. This same Act requires that information furnished for your organization (1) be kept confidential, and (2) that your report may be seen only by sworn employees of the Bureau of the Census. The information provided cannot be used for taxation, regulation, or investigation.

It is important that all questions on the attached form be answered for your organization. Where exact information cannot be given, you are requested to supply carefully prepared estimates.

The enclosed form should be filled even though the organization is no longer active or the drains are no longer functioning. A sketch map of the project lands may be required. This map is necessary provided any drained areas have been added since January 1, 1950 or if any sizeable acreage within the project boundaries does not represent agricultural lands served by the drainage works of this project. If no area has been added since 1950 and only agricultural lands are served by the works, a map of the project lands need not be furnished. If you are unable to supply the requested information, will you please enter, under question 2 of the form, the name of the person who can.

Please fill out and return the enclosed form within 30 days. Please use the self-addressed official envelope, which does not require postage, to return your report.

Sincerely yours,

Robert W. Burgess
Director
Bureau of the Census

Enclosure

60-11-160L (10-12-59)

D 2 No.

UNITED STATES DEPARTMENT OF AGRICULTURE Soil Conservation Service Washington 25, D. C.

ADVISORY NOTICE W-1496

October 2, 1959

To: Work Unit Conservationists

From: D. A. Williams, Administrator

Re: RECORDS AND REPORTS - Information on Drainage Enterprises for the

1960 Census of Drainage

The Bureau of the Census has requested the assistance of the Soil Conservation Service in connection with the taking of the 1960 Census of Drainage. The 1960 Census of Drainage will include all drainage projects that benefit 500 acres or more of land for agriculture.

Under the proposed plans primary dependence of coverage will be the preparation in advance of the enumeration of a listing of the projects to be enumerated. As a starting point the Bureau of the Census expects to canvass all projects that were included in the last Census, that of 1950.

The Bureau of the Census is depending upon the Soil Conservation Service to provide a listing of drainage projects undertaken since 1950.

Will you kindly list in the spaces provided any projects in or partially in the county, or counties, served by your office. Include only projects that provide drainage benefits for approximately 500 or more acres of land for agriculture. Include only jobs completed or started since January 1, 1950. Include all projects—group, individual, and public—irrespective of whether they received technical assistance from SCS. Do not include projects where the need for drainage resulted solely because of irrigation.

In many cases you will be able to provide information on physical works, costs, and maps and you should so indicate in the appropriate boxes. Later, when the enumeration is under way, we would appreciate any help you might be able to give the Drainage Census enumerator.

Three copies of each list should be prepared. The original and one copy should be mailed to the state office and one copy retained in the files of the preparing office. The Bureau of Census has requested us to provide this information by November 9, 1959, so your list should reach the state office by November 2, 1959.

In those counties where no new drainage projects of 500 acres or more in size have been undertaken since 1950, the work unit conservationist should return the list to the state office showing the county names, and indicating the absence of new projects.

STC WUC-3 Gladeur Joung

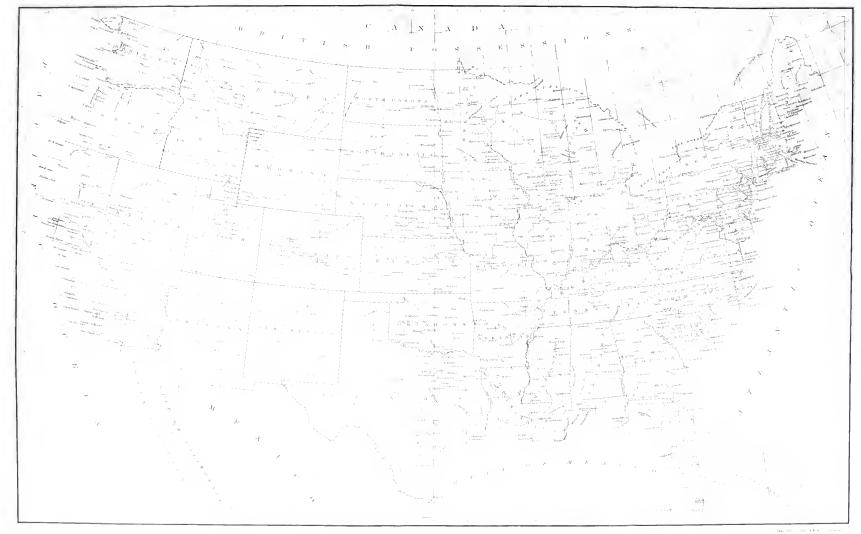
	Maps ts Or Remarks Plats										Q	day
	Physical works Costs										Date	month
State LISTING OF DRAINNGE PROJECTS UNDERFAKEN SINCE 1950, FOR USE OF THE DIREAU OF THE CRESUS.	Name and address of person(s) to contact for information for — PP (If two or more persons for one project, use a separate line for each person)									Use a check mark in boxes as appropriate.		
JECTS UNDERTA BUREAU OF THE	Legally organized project						0			a check mark	Title	
DRAINAGE PRO	perative or utual									- 1		
LISTING OF	Project is a— Single Cooj farm project m									a separate blank sheet.		
pc)	Approximate acres benefited for agriculture									this form or a seg		
UNITED STATES DEPARTMENT OF AGRICULTURE SOLL CONSERVATION SERVICE WASHINGTON, D.C.	Name of project									If more space is required use the back of th	The above information furnished by— Name	Address

Form 60-0:	2-65		U.S	Bureau	r OF COMM of the Cer		State	
WO	RKSHEET FO	R EDITING-	-CENSUS OF	DRAINAGE:	1960		County	
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-	I	tem		Reported		Plar	County nimeter 3d Mean Plani- meter (6)	
	- / .			-	lst	2d		lean
		ea mapped						
		area repor apped in l						
		mapped are 60 Census)						
in 19		(Area not ported as						
5. Total	1960 (1 +	- 2 - 3 + 4	.)					
6. Non-ag	gricultura	l and nond	rained					
7. Net ag	gricultura	1 (5-6)						
	ıltural ar more proj	eas served ects	by					
Remarks:				· · · · · · · · · · · · · · · · · · ·				
Work lines	5:				By	Ţ		
Dl number	1950 1950 Adde add out 1950			Non-agri- cultural or non- drained	Agriculareas served by 2 december	d or		
	(1)	(2)	(3)	(4)	(5)		(6)	_
-								
9. Total								
Show p.	Lanimeter	measuremen	ts of indi	equiring mea cated areas nts needed f	on back o	of cho	et.	

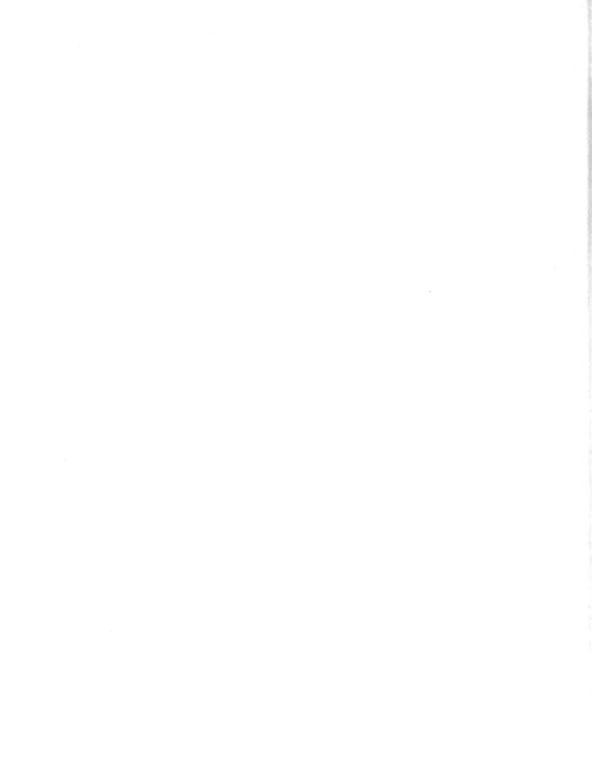
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CONTERMINOUS UNITED STATES-LOCATION OF LAND IN DRAINAGE PROJECTS, 1960

(Projects benefiting 500 or more acres of agricultural land)











1/4/

